


```

Db 266 LysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGluAspPheLysLysThr 285
QY 123 ACTCCTATGACAAACAGCCAGCAATCCAGCTTCATGCTGAGATGGACAAAGA 182
Db 286 ThrProMetThrTrpGlnProProAsnProThrPheSerLeuGlnIleGlyGlnArg 305
QY 183 ATTGTGTGTTACTCCTGACAAATCTGGAAGCATG 218
Db 306 IleValCysLeuValLeuAspLysSerGlySerMet 317

RESULT 2
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 2,05e-25 Length: 902
Score: 252.00 Matches: 48
Percent Similarity: 75.68% Conservative: 8
Best Local Similarity: 64.86% Mismatches: 16
Query Match: 64.12% Indels: 2
Db: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-34 (1-902)
QY 3 ATAGTGAATTTGTGACGAACAACCAACAAAGAGCTCCAAACAGCAAAATCA 62
Db 246 ValValGluPheCysThrGluAsnHisAsnIleGluAlaProAsnLeuGlnAsnLys 265
QY 63 AAATGCAATCTCCGAGACATGGAGTATCGTGTGTTGTGAGACTTTAAGAAAAC 122
Db 266 MetCysAsnHisArgSerThrTrpAspValIleMetSerGluAspPheGlnAsnLys 285
QY 123 ACTCCTATG-----ACACAGCAGCCAGCAATCCAGCTTCATGCTGAGATTGGA 176
Db 286 ProProMetThrGluTrpGluAlaProProProProThrPheThrLeuLeuLysSerArg 305

QY 177 CAAGAATGTGTGTAGTCCCTGACAATCTGGAAGCATG 218
Db 306 ArgArgValValCysLeuValLeuAspLysSerGlySerMet 319

RESULT 3
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. No.: 4,54e-25 Length: 1000
Score: 249.50 Matches: 48
Percent Similarity: 76.71% Conservative: 8
Best Local Similarity: 65.75% Mismatches: 16
Query Match: 63.49% Indels: 1
Db: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-30 (1-1000)
QY 3 ATAGTGAATTTGTGACGAACAACCAACAAAGAGCTCCAAACAGCAAAATCA 62
Db 246 ValTrpGluPheCysThrGluLysThrHisAsnLysGluAlaProAsnLeuTrpAsnLys 265
QY 63 AAATGCAATCTCCGAGACATGGAGTATCGTGTGTTGTGAGACTTTAAGAAAAC 122
Db 266 MetCysAsnHisArgSerThrTrpAspValIleMetSerGluAspPheGlnHisLeu 285
QY 123 ACTCCTATGACA---ACACAGCAGCCAGCAAAATCCAGCTTCATGCTGAGATTGACA 179
Db 286 SerProMetThrTrpGluLysLeuAsnLeuProArgProThrPheSerLeuLeuLysSerGln 305

QY 180 AGAATGTGTGTGTAGTCCCTGACAATCTGGAAGCATG 218
Db 306 ArgValValCysLeuValLeuAspLysSerGlySerMet 318

RESULT 4
US-09-193-562D-13
; Sequence 13, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 13
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-13

Alignment Scores:
Pred. No.: 3,99e-25 Length: 342
Score: 249.00 Matches: 47
Percent Similarity: 78.38% Conservative: 11
Best Local Similarity: 63.51% Mismatches: 14
Query Match: 63.36% Indels: 2
Db: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-13 (1-342)
QY 3 ATAGTGAATTTGTGACGAACAACCAACAAAGAGCTCCAAACAGCAAAATCA 62
Db 247 ValTrpGluPheCysThrGluLysThrHisAsnTrpGluAlaProAsnLeuGlnAsnLys 266
QY 63 AAATGCAATCTCCGAGACATGGAGTATCGTGTGTTGTGAGACTTTAAGAAAAC 122
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 123 ACTCCTATGACA-----ACACAGCAGCCAGCAAAATCCAGCTTCATGCTGAGATTGGA 176
Db 287 SerProMetThrGluMetAsnProProThrThrHisProThrPheSerLeuLeuLysSerLys 306

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OY 177 CAAGAATGTGTTAGTCCTTGACAAATCTGGAAGCATG 218
|||||:|||||
DB 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 320

RESULT 5
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PR
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 4,98e-25 Length: 795
Score: 249.00 Matches: 47
Percent Similarity: 78.388 Conservative: 11
Best Local Similarity: 63.518 Mismatches: 14
Query Match: 63.368 Indels: 2
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-11 (1-795)

OY 3 ATAGTTGAATTCGTGTACAGAAACCAACAAAGACCTCCAAACAGCAAAATCAA 62
::: |||||||
DB 247 ValThrGlnubhecysThrGlnulysThrHisAsnThrGlnAlaProAsnLeuGlnAsnLys 266

OY 63 AAATGCAATCTCCGAAGCATGGAAGTGATCCGATGTTCTGAGACTTTAAGAAAACC 122
||||| :|||||
DB 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286

OY 123 ACTCTATGACA-----ACACAGCCACCAATCCACCTTCATTCATTCGTCGAGATTGGA 176
::: |||||||
DB 287 SerProMetThrGlnuMetAsnProProThrHisProThrPheSerLeuLysSerLys 306

OY 177 CAAGAATGTGTTAGTCCTTGACAAATCTGGAAGCATG 218
|||||:|||||
DB 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 320

RESULT 6
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PR
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12
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Alignment Scores:
Pred. No.: 5,03e-25 Length: 821
Score: 249.00 Matches: 47
Percent Similarity: 78.388 Conservative: 11
Best Local Similarity: 63.518 Mismatches: 14
Query Match: 63.368 Indels: 2
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-12 (1-821)

OY 3 ATAGTTGAATTCGTGTACAGAAACCAACAAAGACCTCCAAACAGCAAAATCAA 62
::: |||||||
DB 247 ValThrGlnubhecysThrGlnulysThrHisAsnThrGlnAlaProAsnLeuGlnAsnLys 266

OY 63 AAATGCAATCTCCGAAGCATGGAAGTGATCCGATGTTCTGAGACTTTAAGAAAACC 122
||||| :|||||
DB 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286

OY 123 ACTCTATGACA-----ACACAGCCACCAATCCACCTTCATTCATTCGTCGAGATTGGA 176
::: |||||||
DB 287 SerProMetThrGlnuMetAsnProProThrHisProThrPheSerLeuLysSerLys 306

OY 177 CAAGAATGTGTTAGTCCTTGACAAATCTGGAAGCATG 218
|||||:|||||
DB 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 320

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PR
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5,16e-25 Length: 905
Score: 249.00 Matches: 47
Percent Similarity: 78.388 Conservative: 11
Best Local Similarity: 63.518 Mismatches: 14
Query Match: 63.368 Indels: 2
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-2 (1-905)

OY 3 ATAGTTGAATTCGTGTACAGAAACCAACAAAGACCTCCAAACAGCAAAATCAA 62
::: |||||||
DB 247 ValThrGlnubhecysThrGlnulysThrHisAsnThrGlnAlaProAsnLeuGlnAsnLys 266

OY 63 AAATGCAATCTCCGAAGCATGGAAGTGATCCGATGTTCTGAGACTTTAAGAAAACC 122
||||| :|||||
DB 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286

OY 123 ACTCTATGACA-----ACACAGCCACCAATCCACCTTCATTCATTCGTCGAGATTGGA 176
::: |||||||
DB 287 SerProMetThrGlnuMetAsnProProThrHisProThrPheSerLeuLysSerLys 306

OY 177 CAAGAATGTGTTAGTCCTTGACAAATCTGGAAGCATG 218
|||||:|||||
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Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 320

RESULT 8

US-09-193-562D-46
Sequence 46, Application US/09193562D
Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

FILE REFERENCE: 18617.0052 Activated Chloride Channel-Adhesion Molecules

CURRENT APPLICATION NUMBER: US/09/193,562D

PRIOR FILING DATE: 1998-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 46

LENGTH: 903

TYPE: PRT

ORGANISM: Unknown

FEATURE:

OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal

OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-

US-09-193-562D-46

Alignment Scores:

Pred. No.:	7.01e-25	Length:	903
Score:	248.00	Matches:	47
Percent Similarity:	77.03%	Conservative:	10
Best Local Similarity:	63.51%	Mismatches:	15
Query Match:	63.10%	Indels:	2
DB:	4	Gaps:	1

US-09-049-696-5 (1-220) x US-09-193-562D-46 (1-903)

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OY 3 ATAGTTGAATTCGTACAGACAAACAAAGAGCTCCAAACAGCAAAATGCA 62
   ::::::::::::::::::::|
DB 246 ValThrGluPheCysThrGluLysThrHisAsnValGluAlaProAsnLeuGlnAsnLys 265
OY 63 AAATGCAATCTCCAGACACATGGAGAGTGCCTGATTCGTGAGACTTTAAGAAAACC 122
   ||||| ::::::::::::::|
DB 266 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerThrAspPheGlnAsnThr 285
OY 123 ACTCCTATGACA-----ACACAGCCACCAATCCACCTTCTCATTCGTGAGATTGGA 176
   ::::::::::|
DB 286 SerProMetThrGluMetAsnProProThrGlnProThrPheSerLeuLysSerLys 305
OY 177 CAAGAAATTTGTGTTAGTTCCTTGACAAATCTGGAAGCATG 218
   ||||| ::::::::::::::|
DB 306 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 319

```

RESULT 9

US-09-193-562D-32

Sequence 32, Application US/09193562D

Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

FILE REFERENCE: 18617.0052 Activated Chloride Channel-Adhesion Molecules

CURRENT APPLICATION NUMBER: US/09/193,562D

PRIOR FILING DATE: 1998-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 32

LENGTH: 943

TYPE: PRT

ORGANISM: Homo sapiens

US-09-193-562D-32

Alignment Scores:

Pred. No.:	9.7e-23	Length:	943
Score:	232.00	Matches:	44
Percent Similarity:	70.27%	Conservative:	8
Best Local Similarity:	59.46%	Mismatches:	20
Query Match:	59.03%	Indels:	2
DB:	4	Gaps:	1

US-09-049-696-5 (1-220) x US-09-193-562D-32 (1-943)

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OY 3 ATAGTTGAATTCGTACAGACAAACAAAGAGCTCCAAACAGCAAAATGCA 62
   ::::::::::::::::::::|
DB 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnAlaProAsnLeuGlnAsnGln 268
OY 63 AAATGCAATCTCCAGACACATGGAGAGTGCCTGATTCGTGAGACTTTAAGAAAACC 122
   ||||| ::::::::::::::|
DB 269 MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288
OY 123 ACTCCTATG-----ACACAGCCACCAATCCACCTTCTCATTCGTGAGATTGGA 176
   ||||| ::::::::::|
DB 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGlnAlaGly 308
OY 177 CAAGAAATTTGTGTTAGTTCCTTGACAAATCTGGAAGCATG 218
   ::::::::::::::|
DB 309 AspLysValValCysLeuValLeuAspLysSerLysMet 322

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RESULT 10

PCT-US94-00198-4

Sequence 4, Application PC/TUS9400198

GENERAL INFORMATION:

APPLICANT: Schering Corp.

TITLE OF INVENTION: RAS Associated GAP Proteins

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Schering Corp.

STREET: 1 Giralda Farms

CITY: Madison

STATE: New Jersey

COUNTRY: USA

ZIP: 94304-1104

COMPUTER READABLE FORM:

COMPUTER: Macintosh

OPERATING SYSTEM: 6.0.8

SOFTWARE: Microsoft Word 5.1a

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/00198

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/004,824

FILING DATE: 15-JAN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Lunn, Paul G.

REGISTRATION NUMBER: 32,743

REFERENCE/DOCKET NUMBER: DX0352 PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (201)822-7255

TELEFAX: (201)822-7039

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 3079 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Saccharomyces cerevisiae

PCT-US94-00198-4

Alignment Scores:

Pred. No.:	0.357	Length:	3079
Score:	71.50 <td>Matches:</td> <td>21</td>	Matches:	21
Percent Similarity:	48.28%	Conservative:	7

Best Local Similarity: 36.21% Mismatches: 21
Query Match: 18.19% Indels: 9
DB: 5 Gaps: 3
US-09-049-696-5 (1-220) x PCT-US94-00198-4 (1-3079)
QY 25 AAACACACAAAGAAAGCTCCAAACAGCAAAATGCAATTCGAGACAT 84
Db 190 Lysheasnrhrarghrleuglnle-----leuglnsmetlleseerhlsvalhls 207
QY 85 GGAAGATCCGATTCGAGACTTTAAGAAACCACTCCATGACACACAGCCAC 144
Db 208 Glyasn-----lleuThrleuSerSerleuProAghHlysser 224
QY 145 CAATGCCA-----CCTTCATTCGAGATTCGACAAAGATTG 186
Db 225 TyrleuThrhrghlsasnhlsProSerHlsCyslysmetlleasPserhrleu 242
SEQUENCE 2, Application US/09173151A
Patent No. 6326472
GENERAL INFORMATION:
APPLICANT: Timans, Jacqueline C.
APPLICANT: Debets, Johannes Eduard Maria
APPLICANT: Antonius
APPLICANT: Sana, Theodore R.
APPLICANT: Bazan, J. Fernando
APPLICANT: Kastelein, Robert A.
TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/173,151A
FILING DATE: 14-OCT-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/065,776
FILING DATE: 17-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,008
FILING DATE: 12-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/081,883
FILING DATE: 15-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/095,987
FILING DATE: 10-AUG-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,416
FILING DATE: 18-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/062,066
FILING DATE: 15-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0767X
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1200
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 579 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-173-151A-2
Alignment Scores:
Pred. No.: 2.31 length: 579
Score: 64.00 Matches: 13
Percent Similarity: 51.02% Conservative: 12
Best Local Similarity: 26.53% Mismatches: 16
Query Match: 16.28% Indels: 8
DB: 4 Gaps: 1
US-09-049-696-5 (1-220) x US-09-173-151A-2 (1-579)
QY 57 AATCAAAAATGCAATTCGACAGCAGATGGAGTGATTCGATTCGAGACTTTAG 116
Db 206 AsnTyrThrCysgluleuLysTyrGlUGlyLysleuValarghrThrhrleuLys 225
QY 117 AAACACCTCCTATGACACACAGCCAAATCCACCTTCATTCGATTCGATTC 164
Db 226 ValThrAlaLeuThrAspLysProProLysProLeuPheProMetGluAenGlnPro 245
QY 165 -----CTGCAGATTGCACA 179
Db 246 SerValIleasPvalGlnleuGlyLys 254
RESULT 12
US-09-173-151A-4
Sequence 4, Application US/09173151A
Patent No. 6326472
GENERAL INFORMATION:
APPLICANT: Timans, Jacqueline C.
APPLICANT: Debets, Johannes Eduard Maria
APPLICANT: Antonius
APPLICANT: Sana, Theodore R.
APPLICANT: Bazan, J. Fernando
APPLICANT: Kastelein, Robert A.
TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/173,151A
FILING DATE: 14-OCT-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/065,776
FILING DATE: 17-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,008
FILING DATE: 12-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/081,883
FILING DATE: 15-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/095,987
FILING DATE: 10-AUG-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,416
FILING DATE: 18-MAR-1998

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/062,066
FILING DATE: 15-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Chung, Edwin P.
REGISTRATION NUMBER: 34,090
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1200
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 686 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-173-151A-4

Alignment Scores:
Pred. No.: 2 41 Length: 686
Score: 64.00 Matches: 13
Percent Similarity: 51.02% Conservative: 12
Best Local Similarity: 26.53% Mismatches: 16
Query Match: 16.28% Indels: 8
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-173-151A-4 (1-686)

QY 57 AATCAAAATGCAATCTCCGAGCAGATGATCGTATTCGAGACTTTAG 116
DB 211 AANLYRTHCGSLGILEULYSTYRGLVALARGSTHRCILUENLYS 230
QY 117 AAACACATCTGATGACACAGCAGCAATCCACCTTCTCATG----- 164
DB 231 VALTHALALEULHETHASPLSPSPROLYSPROLEUPHEPROMETGLUANGINPRO 250
QY 165 -----CTGCAGATTGACAA 179
DB 251 SerValIleAspValGlnLeuGlyLys 259

RESULT 13

US-08-145-006C-12
Sequence 12, Application US/08145006C
Patent No. 3656452
GENERAL INFORMATION:
APPLICANT: Rao, Anjana
APPLICANT: Hogan, Patrick Gerald
APPLICANT: McCaffrey, Patricia
APPLICANT: Jain, Jugnu
TITLE OF INVENTION: NF-ATP, A T LYMPHOCYTE
TITLE OF INVENTION: DNA-BINDING PROTEIN
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 555X
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08145,006C
FILING DATE: October 29, 1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/017,052
FILING DATE: February 11, 1993
APPLICATION NUMBER: 08/006,067
FILING DATE: January 15, 1993

ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 04590/007001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 357
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-145-006C-12

Alignment Scores:
Pred. No.: 2 76 Length: 357
Score: 63.00 Matches: 18
Percent Similarity: 45.76% Conservative: 9
Best Local Similarity: 30.51% Mismatches: 32
Query Match: 16.03% Indels: 0
DB: 1 Gaps: 0

US-09-049-696-5 (1-220) x US-08-145-006C-12 (1-357)

QY 14 CTGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATGCAATCT 73
DB 264 MetTrpLysThrSerProAspProSerProValSerArgAlaProSerLysAlaGlyLeu 283
QY 74 CCGAGACATGAGGAGATGATCCGTATTCGAGAGACTTTAGAAAMACCACTCATGAC 133
DB 284 ProArgHisIleYrProAlaValGlnPheLeuGlyProCysGlnGlyGluArg 303
QY 134 AACACACCCACCAATCCACCTTCTCATGCTGCACATTGACAAAGATTGTGTG 190
DB 304 AsnSerAlaProGlnSerIleLeuValProThrTrpProLysProLeuVal 322

RESULT 14

PCT-US94-00545-12
Sequence 12, Application PC/TUS9400545
GENERAL INFORMATION:
APPLICANT: Rao, Anjana
APPLICANT: Hogan, Patrick Gerald
APPLICANT: McCaffrey, Patricia
APPLICANT: Jain, Jugnu
TITLE OF INVENTION: NF-ATP, A T LYMPHOCYTE
TITLE OF INVENTION: DNA-BINDING PROTEIN
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 555X
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/00545
FILING DATE: 18-JAN-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/145,006
FILING DATE: October 29, 1993
APPLICATION NUMBER: 08/017,052
FILING DATE: February 11, 1993
APPLICATION NUMBER: 08/006,067
FILING DATE: January 15, 1993
ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 04590/007001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 357
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
PCT-US94-00545-12

Alignment Scores:
Pred. No.: 2.76 Length: 357
Score: 63.00 Matches: 18
Percent Similarity: 45.76% Conservative: 9
Local Similarity: 30.51% Mismatches: 32
Query Match: 16.03% Indels: 0
DB: 5 Gaps: 0

US-09-049-696-5 (1-220) x PCT-US94-00545-12 (1-357)

QY 14 CTGTACAGAACAAACCAACAAAGCTCCAAACAAATCAAAATGCAATCT 73
Db 264 MettrplyshrsrProaBpProserProvalSerAlaProSerlySAlaGlyLeu 283
QY 74 CCGAAGCACAATGGAGAGTCCGTGATTCGTGAGACTTAAAGAAACCACTCCTATGAC 133
Db 284 ProArghisileYrProAlaValaGluPhelenglyProcysgluInglyGluArgArg 303
QY 134 AACACAGCCCAAAATCCACCTTCATTCATTCGACATTCGACAAAGAAATGTGTG 190
Db 304 AsnserAlaProgluSerileuLeuValProProThrProlySProLeuVal 322

RESULT 15
5386025-6
PATENT NO. 5386025
APPLICANT: JAY, SCOTT D.; ELLIS, STEVEN B.; HARPOLD, MICHAEL
M.; CAMPBELL, KEVIN P.
TITLE OF INVENTION: CALCIUM CHANNEL COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 9
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/482,384
FILING DATE: 20-FEB-1990
Q ID NO: 6:
LENGTH: 1872
5386025-6

Alignment Scores:
Pred. No.: 5.82 Length: 1872
Score: 62.00 Matches: 23
Percent Similarity: 48.00% Conservative: 13
Best Local Similarity: 30.67% Mismatches: 24
Query Match: 15.62% Indels: 15
DB: 6 Gaps: 3

US-09-049-696-5 (1-220) x 5386025-6 (1-1872)

QY 216 TGGTTCAGATTGTGCAAGAGCTAAACACAAATTTTGTCCAAATCGCAGCAATGAGA 157
Db 501 CysPheValValCysSerGlyIleLeuGluLeuLeuValGluSerGlyAlaMet-Th 520
QY 156 AGGT--GGGATTGTGCTGTGTGTGTCATAGAGTGTTCCTTAAGTCTCAGCAAT 100
Db 520 rProLeuGlyIleSerValLeuArgCysIleArg-----LeuLeuArgLeuPheLysIl 538
QY 99 CAGGATCACTCCCAATGCTTCG-----GA 73
Db 538 ethrLysTyrTrpThrSerLeuSerAsnLeuValAlaSerLeuLeuAsnSerIleArgse 558

QY 72 GATTGCATTTTGGATTGCTTGTGGAGCTTCTTGTGTG 30
Db 558 rIleAlaSerLeuLeuLeuLeuLeuPheLeuPheIleIleIle 572

Search completed: October 17, 2002, 17:59:18
Job time: 10.1794 secs

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1	179.4	99.1	3007	4	US-09-193-562D-27	Sequence 27, App
2	74.2	41.0	3317	4	US-09-193-562D-1	Sequence 1, App
3	72.8	40.2	3418	4	US-09-193-562D-29	Sequence 29, App
4	66.4	36.7	3022	4	US-09-193-562D-33	Sequence 33, App
5	58.8	32.5	2970	4	US-09-193-562D-31	Sequence 31, App
6	36.8	20.3	5156	2	US-09-091-4332-3	Sequence 3, App
7	35	19.3	1794	3	US-09-012-515A-13	Sequence 13, App
8	35	19.3	1794	3	US-08-360-144A-13	Sequence 13, App
9	35	19.3	1794	5	PCT-US95-06722-13	Sequence 13, App
10	32.6	18.0	1534	4	US-08-300-903A-6	Sequence 6, App
11	32.2	17.8	1117	4	US-09-247-373B-33	Sequence 33, App
12	31.2	17.2	1401	1	US-08-785-066-1	Sequence 1, App
13	31.2	17.2	1401	3	US-09-007-355-1	Sequence 1, App
14	31.2	17.2	1401	3	US-08-913-489-1	Sequence 1, App
15	31	17.1	1838	2	US-09-091-4332-1	Sequence 1, App
16	30.4	16.8	3414	1	US-07-973-320-3	Sequence 3, App
17	30.2	16.7	974	2	US-08-504-459-13	Sequence 13, App
18	29.6	16.4	1743	2	US-08-591-079-1	Sequence 1, App
19	29.2	16.1	7859	1	US-07-854-5968-4	Sequence 4, App
20	29.2	16.1	7859	2	US-08-450-905B-15	Sequence 15, App
21	29.2	16.1	7859	3	US-07-982-759F-15	Sequence 15, App
22	29	16.0	621	2	US-08-951-822-6	Sequence 6, App
23	29	16.0	621	4	US-09-368-951-6	Sequence 6, App
24	29	16.0	1454	2	US-08-713-000-7	Sequence 7, App
25	29	16.0	1454	2	US-08-975-316-7	Sequence 7, App
26	29	16.0	1454	4	US-09-211-710-7	Sequence 7, App
27	29	16.0	1474	2	US-08-975-316-71	Sequence 71, App

C	28	29	16.0	2280	3	US-08-613-150-1	Sequence 1,	April
C	29	29	16.0	90050	4	US-09-245-041-5	Sequence 5,	April
C	30	28.8	15.9	729	1	US-08-231-142-22	Sequence 24,	April
C	31	28.8	15.9	729	1	US-08-331-142-25	Sequence 25,	April
C	32	28.8	15.9	1366	1	US-08-231-142-22	Sequence 22,	April
C	33	28.8	15.9	3414	1	US-07-973-320-1	Sequence 1,	April
C	34	28.8	15.9	5892	1	US-08-755-587-27	Sequence 27,	April
C	35	28.8	15.9	7240	3	US-08-755-587-15	Sequence 15,	April
C	36	28.8	15.9	11283	2	US-08-603-7530-3	Sequence 3,	April
C	37	28.8	15.9	11283	3	US-09-099-753-3	Sequence 3,	April
C	38	28.8	15.9	11283	4	US-08-986-106-3	Sequence 3,	April
C	39	28.8	15.9	11385	2	US-08-639-501-1	Sequence 1,	April
C	40	28.8	15.9	11385	2	US-09-044-501-1	Sequence 1,	April
C	41	28.8	15.9	11385	3	US-08-044-508-1	Sequence 1,	April
C	42	28.8	15.8	467	2	US-08-841-349-18	Sequence 18,	April
C	43	28.4	15.7	1215	2	US-09-092-770-8	Sequence 8,	April
C	44	28.4	15.7	1215	4	US-09-222-851-8	Sequence 8,	April
C	45	28.2	15.6	1134	3	US-09-248-335-29	Sequence 29,	April

ALIGNMENTS

RESULT 1
US-09-193-562D-27

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; Sequence 27, Application US/09193562L
; Patent No. 6309857
```

; GENERAL INFORMATION:

TITLE OF INVENTION: Nucleotide

TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

FILE REFERENCE: 18617.0052

CURRENT FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065,922

PRIOR FILING DATE: 1997-11-17

NUMBER OF SEQ ID NOS: 4

; LENGTH: 3007

TYPE: DNA

; ORGANISM: Homo sapiens

Query Match: 99.1%; Score 179.4; DB 4; Length 3007

Best Local Similarity 99.4%; Pred. No. 5.3e-45;
 Matches 180; Conservative 0; Mismatches 1; Indels 0; Cans 0;

malicious 100, conservative 0, mismanages 1, induces 0, says 0,

1 CAAAGATGCACATTCATTAAGTAACACGACTCTATGAAAAAGCATGTGAGTTTGTCT 60

[illegible]

66 / CAAAGATGGACATTCATTAAGTTACAGGACCTCTATGAAAGGATGTGAGTTGTCT / 2

61 CCAATCCCGCCAGACGAGGAAGGCTTCTATATGTTGACACAACATGTTGATTCTATAGT 12

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3 / 2 / CCATCCCGCAGACGGAGAAAGGCTTCTATTAATGTTCACACAACATGTGATTCATAGT / 8

121 TGAATCTGTACAGACAAACCACACAAAGAAGCTCCAACACAGCAAAATCAAAAATG 18

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84
/8/ TGAATTCTGTACGAACTAAACCAACAAGAGCTCCAAACAGCAAAATCAAAATG

181 C 181

—

847 C 847

RESULT 2

Sequence 1 Application MS/09193563D
S-09-193-562D-1

sequence 1, application 05/03155022
Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Paul J. Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

TITLE OF INVENTION: Activated chloride channel-Adhesion molecules

FILE REFERENCE: 18617.0052

```
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 1
;; LENGTH: 3317
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: sequence encoding Lu-BCAM-1 and Lu-BCAM-1 associated
;; OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1
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```
Query Match
Best Local Similarity 41.0%; Score 74.2; DB 4; Length 3317;
Matches 112; Conservative 0; Mismatches 63; Indels 0; Gaps 0;
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```
QY 7 ATGCACATTCATTAAGTAACAGAGCTCTATGAAAAAGAGTGTGAGTTGTTCTCCAAATC 66
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
692 ATGCAGAGCTGACTCAGACAGAGGCTGTATGAGCAAAATGTACATTCTCCAAAAA 751
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 752 ATCCGAGAGGAGAGGCTTCTATATGTTGCACACATGTTGATCTTATAGTTGATTT 126
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 127 CTGTACAGACAAACCAACCAAGAGCTCCAAACAGCAAAATCAAAATGC 181
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 812 TTGTACAGAAACACACAAATACAGAGCTCCAAACCTACAAACAAATATGTGC 866
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

RESULT 3

```
US-09-193-562D-29
;; Sequence 29, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 29
;; LENGTH: 3418
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-193-562D-29
```

```
Query Match
Best Local Similarity 40.2%; Score 72.8; DB 4; Length 3418;
Matches 104; Conservative 0; Mismatches 52; Indels 0; Gaps 0;
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```
QY 26 ACAGAGCTATGAAAAAGATGTGAGTTGTTCTCCAAATCCGACAGAGGAGAGGCT 85
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 664 ACAGGCTGTATGAAGAAATGTACATTTATCCAAAGAGATCCAGACTGCCAAGGAA 723
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 86 TCTATATGTTTGCACACATGTTGATTTCTATAGTTGAATTCGTACAGAAACAAACAC 145
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 724 TCCATGTGTTTATGCAAAATCTTGATTCGTGACTGAATTTGTACTGAAAAACACAC 783
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 146 AACAAAGAGCTCCAAACAGCAAAATCAAAATGC 181
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 784 AATTAAGAGCTCCAAACCTATATTAACAAATGTGC 819
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

RESULT 4

```
US-09-193-562D-33
;; Sequence 33, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
```

```
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 33
;; LENGTH: 3022
;; TYPE: DNA
;; ORGANISM: Mus musculus
US-09-193-562D-33
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```
Query Match
Best Local Similarity 36.7%; Score 66.4; DB 4; Length 3022;
Matches 100; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
```

```
QY 26 ACAGAGCTATGAAAAAGATGTGAGTTGTTCTCCAAATCCGACAGAGGAGAGGCT 85
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 663 ACAGGCTGTATGAAGCAAAATGTACATTTATCCAGACAAATACAGACAGCTGGGGCC 722
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 86 TCTATATGTTTGCACACATGTTGATTTCTATAGTTGAATTCGTACAGAAACAAACAC 145
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 723 TCCATATGTTTATGCAAAACCTCAATTCGTGTTGATTTTGTGACAGAAATTAACAC 782
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 146 AACAAAGAGCTCCAAACAGCAAAATCAAAATGC 181
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 783 AATGACAGAGCCCAACCACTACAAACAAATGTGC 818
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

RESULT 5

```
US-09-193-562D-31
;; Sequence 31, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 31
;; LENGTH: 2970
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-193-562D-31
```

```
Query Match
Best Local Similarity 32.5%; Score 58.8; DB 4; Length 2970;
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
```

```
QY 32 CTCTATGAAAAAGATGTGAGTTGTTCTCCAAATCCGACAGAGGAGAGGCTTCTATA 91
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 769 CTTTAAAGAGATGACCTTTATCTACAAATAGCAACCAAAATGCACTGCATCAATA 828
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 92 ATGTTGCACACATGTTGATTTCTATAGTTGAATTCGTACAGAAACAAACCAACAA 151
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 829 ATGTTGATGCAAAATTTATCTCTGTGTTGAATTTGTATGCAAGTACCAACCAACCA 888
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 152 GAAGCTCCAAACAGCAAAATCAAAATGC 181
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 889 GAAGCACCACCACTACAGAACCAAGATGTGC 918
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

RESULT 6

```
US-09-091-432-3/c
;; Sequence 3, Application US/09091432
;; Patent No. 5981837
```

```

? SEQUENCE CHARACTERISTICS:
?     LENGTH: 1794 base pairs
?     TYPE: nucleic acid
?     STRANDEDNESS: both
?     TOPOLOGY: linear
?     MOLECULE TYPE: cDNA
?     FEATURE:
?     NAME/KEY: CDS

```

RESULT 10
US-08-300-903A-6

APPLICANT: MCGONIGLE, BRIAN
APPLICANT: O'KEEFE, DANIEL
TITLE OF INVENTION: SOYBEAN GLUTATHIONE-S-TRANSFERASE ENZYMES
FILE REFERENCE: CL-1108-A
CURRENT APPLICATION NUMBER: US/09,247, 373B
CURRENT FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 08/924,747


```

? PRIOR FILING DATE: 1997-09-05
? NUMBER OF SEQ ID NOS: 56
? SOFTWARE: Microsoft Office 97
? SEQ ID NO 33
? LENGTH: 1117
? TYPE: DNA
? ORGANISM: SOYBEAN
? FEATURE:
? NAME/KEY: unsure
? LOCATION: (1101)
? OTHER INFORMATION: M=A OR C
? NAME/KEY: unsure
? LOCATION: (1104)
? OTHER INFORMATION: M=A OR C
? NAME/KEY: unsure
? LOCATION: (1116)
? OTHER INFORMATION:
? OS-09-247-33B--33

```

Query Match	17.8%	Score 32.2;	DB 4;	Length 1117;
Best Local Similarity	59.1%	Pred. No. 0.59;		
Matches	55;	Conservative	0;	Mismatches 38;
				Indels 0;
				Gaps 0

[illegible]

RESULT 12
US-08-785

```

Sequence 1, Application us/08785066
Patent No. 5776749
GENERAL INFORMATION:
APPLICANT: Hodgson, John
APPLICANT: Lawlor, Elizabeth
TITLE OF INVENTION: No. 5776749el tRNA Synthetase
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Smithkline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/785,066
FILING DATE: 17-JAN-1997
CLASSIFICATION: 432
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 9601099.6
FILING DATE: 19-JAN-1996
APPLICATION NUMBER: 9622617.0
FILING DATE: 30-OCT-1996
ATTORNEY/AGENT INFORMATION:
NAME: Glumli, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P31355-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1401 base pairs

```

```

;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;      MOLECULE TYPE: Genomic DNA
US-08-785-066-1

```

query Match	17.2%;	Score 31.2;	DB 1;	Length 1401;
Best Local Similarity	50.7%;	Pred. No. 1.3;		
Matches 75;	Conservative 0;	Mismatches 73;	Indels 0;	Gaps 0;

[illegible]

RESULT 13

US-09-007-355-1
Sequence 1, Application US/09007355
Patent No. 6057138
GENERAL INFORMATION:
APPLICANT: Hodgson, John
TITLE OF INVENTION: No. 6057138el tRNA Synthetase

```

: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
:     LENGTH: 1401 base pairs
:     TYPE: nucleic acid
:     STRANDEDNESS: double
:     TOPOLOGY: linear
:     MOLECULE TYPE: Genomic DNA
:     US-09-007-355-1
Query Match      17.28; Score 31.2; DB 3; Length 1401

```

73 GACGGAGGAGGCTTCATTAATGTATTGCACAACAATCCTAATCCATAATCTCATCAATCT

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 5.08397 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-4
Perfect score: 324
Sequence: 1 CAAGAATGACATTCATTA.....ACAAGCAAAATCAAAATGC 181

Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL-frame_n2p_model -DEV-x1h
-O/cgn2_1/USPTO.spool/US09049696/rumat.16102002.115821_24739/app_query.fasta.1.13694
-DB-issued.patents_AA -OPMT-fastaan -SUFFIX-rai -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS-bits -START=1 -END=1 -MATRIX-blosum62 -TRANS-human40.cdi
-LIST=45 -DOCLALIGN=200 -THR SCORE-pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE-LOCAL -OUTMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USRR-US09049696.ecgn1.1.57_etunal.16102002.115821_24739 -NCP=6 -ICP=3
-NO_XLPHY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-MAIN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued.patents_AA.*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	324	100.0	914	4	US-09-193-562D-28
2	169	52.2	902	4	US-09-193-562D-34
3	168	51.9	1000	4	US-09-193-562D-30
4	165	50.9	903	4	US-09-193-562D-46
5	160	49.4	342	4	US-09-193-562D-13
6	160	49.4	795	4	US-09-193-562D-11
7	160	49.4	821	4	US-09-193-562D-12
8	160	49.4	905	4	US-09-193-562D-2
9	156.5	48.3	943	4	US-09-193-562D-32
10	66	20.2	1786	4	US-08-477-451-16
11	59.5	18.3	1817	4	US-09-004-838-125
12	58	17.9	139	2	US-08-219-237B-8

13	58	17.9	140	4	US-08-477-347-17	Sequence 17, Appl
14	58	17.9	140	4	US-08-476-862-8	Sequence 8, Appl1
15	58	17.9	205	3	US-08-974-022-51	Sequence 51, Appl
16	58	17.9	205	4	US-08-795-445A-51	Sequence 51, Appl
17	58	17.9	205	4	US-08-974-186-51	Sequence 51, Appl
18	58	17.9	205	4	US-08-974-186-51	Sequence 51, Appl
19	58	17.9	205	4	US-08-795-446B-51	Sequence 51, Appl
20	56.5	17.3	287	1	US-07-915-934-2	Sequence 2, Appl1
21	56.5	17.3	287	1	US-08-325-743-2	Sequence 2, Appl1
22	56.5	17.4	1140	4	US-09-220-081-2	Sequence 2, Appl1
23	56.5	17.4	2329	3	US-08-755-587-16	Sequence 16, Appl
24	56.5	17.4	3418	2	US-08-639-501-2	Sequence 2, Appl1
25	56.5	17.4	3418	2	US-08-603-753D-4	Sequence 2, Appl1
26	56.5	17.4	3418	3	US-09-044-946-2	Sequence 2, Appl1
27	56.5	17.4	3418	3	US-08-755-587-44	Sequence 44, Appl
28	56.5	17.4	3418	3	US-09-044-908-2	Sequence 2, Appl1
29	56.5	17.4	3418	4	US-09-099-753-4	Sequence 4, Appl1
30	56.5	17.4	3418	4	US-08-986-106-4	Sequence 4, Appl1
31	56	17.2	360	4	US-09-116-498-10	Sequence 10, Appl
32	56	17.2	374	4	US-09-045-583-48	Sequence 48, Appl
33	56	17.3	450	4	US-09-457-046B-67	Sequence 67, Appl
34	55.5	17.0	1684	3	US-08-665-259-25	Sequence 25, Appl
35	55.5	17.0	1684	3	US-08-762-500-25	Sequence 25, Appl
36	55.5	17.0	1704	3	US-08-762-500-75	Sequence 75, Appl
37	55	17.0	2548	4	US-09-172-422-1	Sequence 1, Appl1
38	55	16.9	3200	2	US-08-477-451-8	Sequence 8, Appl1
39	54.5	16.8	401	3	US-08-517-802-3	Sequence 3, Appl1
40	54	16.7	200	4	US-09-199-637A-373	Sequence 373, App
41	54	16.7	583	4	US-09-272-414-2	Sequence 2, Appl1
42	54	16.7	755	4	US-07-861-458C-99	Sequence 99, Appl
43	54	16.7	894	1	US-08-117-362-4	Sequence 4, Appl1
44	54	16.7	894	1	US-08-486-924-4	Sequence 4, Appl1
45	53	16.4	321	1	US-08-447-185-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:

Pred. No.: 1.46e-37
Score: 324.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
Length: 914
Matches: 60
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-28 (1-914)

OY 2 AAAAGATGACATTCATTAAGTAACAGGACTCATTAAGTAAGTGTGTTCTC 61
|||||
Db 208 LysArgCysThrPheAnLysValThrGlyLeuYrGlyCysGluPheValLeu 227
|||||
OY 62 CAATCCGCGCAGAGGAGGAGGCTTCATATATGTTTCACACATGTTGATTATGTT 121
|||||

DB 228 GlnSerArgGlnThrGluIuIySAIaSerIleMetPheAlaGlnHisValaAspSerIleVal 247
QY 122 GAATTCGTGACAGAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATGTC 181
DB 248 GluPheCysThrGluGlnAsnHisAsnIuSgluAlaProAsnIuSglnAsnGlnIuSglsCys 267
RESULT 2
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34
Alignment Scores:
Pred. No.: 1.27e-15 Length: 902
Score: 169.00 Matches: 32
Percent Similarity: 66.67% Conservative: 8
Best Local Similarity: 53.33% Mismatches: 20
Query Match: 52.16% Indels: 0
DB: 4 Gaps: 0
US-09-049-696-4 (1-181) x US-09-193-562D-34 (1-902)
QY 2 AAAAGATGACATTCATTAAGTAACAGAGCTCTATGAAAAAGATGAGTTGTTC 61
DB 208 AGTAAcAcytArgArGAspSerIuSThrArgLeuTyrGluProIuSglsThrPheIlePro 227
QY 62 CAATCCCGCAGACGAGAGAGGCTTCTATATAGTTTGACACAGATGATTCATATAGTT 121
DB 228 AspIuSgIleGlnThrAlaGlyAlaSerIleMetPheMetGlnAsnIuSgIuValVal 247
QY 122 GAATTCGTGACAGAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATGTC 181
DB 248 GluPheCysThrGluGlnAsnHisAsnIuSgluAlaProAsnIuSglnAsnIuSglsCys 267
CULT 3
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30
Alignment Scores:
Pred. No.: 1.82e-15 Length: 1000
Score: 168.00 Matches: 30
Percent Similarity: 73.08% Conservative: 8
Best Local Similarity: 57.69% Mismatches: 14

Query Match: 51.85% Indels: 0
DB: 4 Gaps: 0
US-09-049-696-4 (1-181) x US-09-193-562D-30 (1-1000)
QY 26 ACAGAGCTCTATGAAAAAGATGAGTTGTTCACAAATCCGACAGAGAGAGCT 85
DB 216 ThrGlyLeuTyrGluAlaIuSglsThrPheIleProIuSgIuSgIuThrAlaIuSgIu 235
QY 86 TCTATATGTTTGCACACATGTTGATTCATATGTTGAATTCGTACAGACAAACAC 145
DB 236 SerIleValPheMetGlnAsnIuSgIuSgIuSgIuSgIuSgIuSgIuSgIuSgIuSgIu 255
QY 146 AACAAAGAGCTCCAAACAAAGCAAAATCAAAATGTC 181
DB 256 AsnIuSgIuAlaProAsnIuSgIuSgIuSgIuSgIuSgIuSgIuSgIuSgIuSgIu 267
RESULT 4
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46
Alignment Scores:
Pred. No.: 4.7e-15 Length: 903
Score: 165.00 Matches: 30
Percent Similarity: 65.52% Conservative: 8
Best Local Similarity: 51.72% Mismatches: 20
Query Match: 50.93% Indels: 0
DB: 4 Gaps: 0
US-09-049-696-4 (1-181) x US-09-193-562D-46 (1-903)
QY 8 TGCACATTCATTAAGTAACAGAGCTCTATGAAAAAGATGAGTTGTTCACAAATCC 67
DB 210 CysArgArgAspSerGlnThrGlyLeuTyrGluAlaIuSglsThrPheIleProGluIuS 229
QY 68 CGCCAGACGAGAGAGGCTCTATATAGTTTGACACAAATGTTGATTCATATGTTGAATTC 127
DB 220 SerGlnThrAlaArgGlnSerIleMetPheMetGlnSerIuSgIuSgIuSgIuSgIuSgIu 249
QY 128 TGTACAGACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATGTC 181
DB 250 CysThrGluIuSgIuThrHisAsnValGluAlaProAsnIuSgIuSgIuSgIuSgIuSgIu 267
RESULT 5
US-09-193-562D-13
; Sequence 13, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D

Score: 160.00
Percent Similarity: 63.798
Best Local Similarity: 51.728
Query Match: 49.388
DB: 4
Matches: 30
Conservative: 7
Mismatches: 21
Indels: 0
Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-2 (1-905)

QY 8 TGCACATTCAATTAAGTACAGAGCTCTATGAAAAAGATGTGTTGTTCCATCC 67
DB 211 CysArgArgAspSerGlnThrGlyLeuYrGlnAlaLysCysThrPheLeuProLys 230
QY 68 CGCAGACGAGAGGCTCTATTAATGTTGCACAAACATGTTGATTAAGTGAATTC 127
DB 231 SerGlnThrAlaLysLeuSerIleMetProSerLeuHisSerValThrGlnPhe 250
QY 128 TGTACAGACAAACACACAAAGAGCTCCAAACAGCAATTCATAAAATGC 181
DB 251 CysThrGlnLysThrHisSerThrGlnAlaProAsnLeuGlnAsnLysMetCys 268

RESULT 9

Sequence 32, Application US/09193562D
Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193.562D
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065.922
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 32
LENGTH: 943
TYPE: PRT
ORGANISM: Homo sapiens

US-09-193-562D-32

Alignment Scores:

Pred. No.: 7.59e-14 Length: 943
Score: 156.50 Matches: 29
Percent Similarity: 63.33% Conservative: 9
Best Local Similarity: 48.33% Mismatch: 19
Query Match: 48.308 Indels: 3
DB: 4 Gaps: 1

US-09-049-696-4 (1-181) x US-09-193-562D-32 (1-943)

2 AAAGATGCACATTCATTAAGTACAGAGCTCTATGAAAAAGATGTGTTGTTCTC 61
DB 214 GlnAsnGlySerIleLeuSerYs-----LeuPheLysGlnGlyCysThrPheIleTyr 230
QY 62 CAATCCGCGACAGCGAGAGGCTCTATTAATGTTGCACAAACATGTTGATTAAGT 121
DB 231 AsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetInsLeuSerValVal 250
QY 122 GAATTCGTGACAGACAAACACACAAAGAGCTCCAAACAGCAATTCATAAAATGC 181
DB 251 GluPheCysAsnAlaSerThrHisAsnGlnGlnAlaProAsnLeuGlnAsnLysMetCys 270
RESULT 10
US-08-477-451-16
Sequence 16, Application US/08477451
Patent No. 5928865
GENERAL INFORMATION:
APPLICANT: Covacci, Antonello
TITLE OF INVENTION: Helicobacter pylori CagI Region
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street

CITY: Emeryville

STATE: CA

COUNTRY: USA

ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477,451

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: McClung, Barbara G.

REGISTRATION NUMBER: 33,113

REFERENCE/DOCKET NUMBER: 0335.002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 510-601-2708

TELEFAX: 510-655-3542

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 1786 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-477-451-16

US-09-049-696-4 (1-181) x US-08-477-451-16 (1-1786)

Alignment Scores:
Pred. No.: 0.585 Length: 1786
Score: 66.00 Matches: 23
Percent Similarity: 38.96% Conservative: 7
Best Local Similarity: 29.87% Mismatch: 17
Query Match: 20.25% Indels: 30
DB: 2 Gaps: 4

QY 178 TTTTGTGTTTGGCTGTTGGAGCTTCTTTGTT-----GTGGTTTGTGTTCTGTACA 128

DB 1385 PheLeuSerPheValLeuSerArgPhePheLeuAsnArgValValLeuPhePheLys 1404

QY 127 GAATTCACATTAAGATCAACATGTTGTCGAACATTATAGAAGCTTCGCTGGGG 68

DB 1405 ArgPheAsnLeuLeuAsnLeuLeuLys----- 1414

QY 67 GGATTGGAGACAACTCACATCTTTTCATAGAGTCC----- 29

DB 1415 -----SerArgProIleLeuSerPhePheSerGlnSerValSerGlyGluPhePhe 1432

QY 28 -----TGTACTTT-----ATTGAATGTGCATCTTTT 2

DB 1433 LeuPheCysAsnPhePheValIleMetSerLeuIleGluCysPheAspPhe 1449

RESULT 11
US-09-004-838-125
Sequence 125, Application US/09004838
Patent No. 6350933
GENERAL INFORMATION:
APPLICANT: Michelmore, Richard W.
APPLICANT: Shen, Kathy
TITLE OF INVENTION: Procedures and Materials for
TITLE OF INVENTION: Confering Pest Resistance in Plants
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/004,838
; FILING DATE: 09-JAN-1998
; CLASSIFICATION: 800
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/781,734
; FILING DATE: 10-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Einhorn, Gregory P.
; REGISTRATION NUMBER: 38,440
; REFERENCE/DOCKET NUMBER: 023070-078810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 125:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1817 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..1817
; OTHER INFORMATION: /note= "RGS2 deduced sequence"
;
US-09-004-838-125
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Alignment Scores:
Pred. No.: 4.89 Length: 1817
Score: 59.50 Matches: 15
Percent Similarity: 46.94% Conservative: 8
Best Local Similarity: 30.61% Mismatches: 21
Query Match: 18.25% Indels: 5
DB: 4 Gaps: 2
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US-09-049-696-4 (1-181) x US-09-004-838-125 (1-1817)

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QY 160 TGGACCTCTTGTGTTGTTCTGTACAGATTTCACATGAGATCAATGTTG 101
    |||||
DB 1546 TTPSERPHEHISASLEULELLEGLULEUASPMETGLULEASPTYRASPVALIYSLSYS 1565
    |||||
QY 100 TGCACAACATTATAGAACCTCTCCGTCYGGCGGATTGGAGACAACTCACATCCCTT 41
    |||||
    1566 ILEPROSER---SERGLULEULEUGLNULEU-----GLHLSLEUGLNULSYSLE 1580
    |||||
QY 40 TTCATAGAGTCTCTTACTTTATTGAA 14
    |||||
DB 1581 HISVALSERSECYSTYRTYRPAIGLU 1589
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RESULT 12

US-08-219-237B-8

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; Sequence 8, Application US/08219237B
; Patent No. 5874546
; GENERAL INFORMATION:
; APPLICANT: NAGATA, Shigekazu
; APPLICANT: ITOH, Naoto
; APPLICANT: YONEHARA, Shin
; TITLE OF INVENTION: DNA Coding for Human Cell Surface Antigen
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James W. Hellwege
; STREET: P.O. Box 2266 Eads Station
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/219,237B
; FILING DATE: 28-MAR-1994
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,129
; FILING DATE: 22-APR-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: James W. Hellwege
; REGISTRATION NUMBER: 28,808
; REFERENCE/DOCKET NUMBER: 516762
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 139 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-219-237B-8
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Alignment Scores:
Pred. No.: 4 Length: 139
Score: 58.00 Matches: 17
Percent Similarity: 53.66% Conservative: 5
Best Local Similarity: 41.46% Mismatches: 14
Query Match: 17.90% Indels: 5
DB: 2 Gaps: 2
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US-09-049-696-4 (1-181) x US-08-219-237B-8 (1-139)

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QY 52 GTTGTCTTCCAAATCCGCCAGAGAGAGAGCTTCTATATGTTTGCACAACATGTTGA 111
    |||||
DB 33 VALCYSHISPRCCYSGLUPTRO-----GLYPHETYSANGLU-ALAVAIASNTYRAS 49
    |||||
QY 112 TTCTATAGTTGATATCTGTACGACAAACCAACCAACAAAGAGCTCCCAACACGAAA 171
    |||||
DB 49 PTHRCYSYSGIN---CYSTHGLNCYSASNHSISRGSEGLYSERGLULEULYSGLIN 68
    |||||
QY 172 T 172
DB 68 n 68
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RESULT 13

US-08-477-347-17

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; Sequence 17, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELITSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,347
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
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APPLICATION NUMBER: 08/115,685
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 140 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-477-347-17
Alignment Scores:
Pred. No.: 4
Score: 58.00
Percent Similarity: 53.66%
Best Local Similarity: 41.46%
Query Match: 17.90%
Length: 140
Matches: 17
Conservative: 5
Mismatch: 14
Indels: 5
Gaps: 2
US-09-049-696-4 (1-181) x US-08-477-347-17 (1-140)
QY 52 GTTGTCTCCAAATCCGCCAGAGAGAGGCTTCTATATGTTGCACAACATGTTGA 111
Db 34 ValCysHisProCysGluPro-----GlyPheTyrAsnGlu-AlaValAsnTyrAs 50
QY 112 TTCATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAA 171
Db 50 pThcCysLysGln--CysThrGlnCysAsnHisArgSerGlySerGluLeuLysGlnAs 69
QY 172 T 172
Db 69 n 69
RESULT 14
US-08-476-862-8
Sequence 8, Application US/08476862
Patent No. 626239
GENERAL INFORMATION:
APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
CLASSIFICATION: A35
PRIOR APPLICATION DATA:

APPLICATION NUMBER: IL 107267
FILING DATE: 12-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH-12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 140 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-476-862-8
Alignment Scores:
Pred. No.: 4
Score: 58.00
Percent Similarity: 53.66%
Best Local Similarity: 41.46%
Query Match: 17.90%
Length: 140
Matches: 17
Conservative: 5
Mismatch: 14
Indels: 5
Gaps: 2
US-09-049-696-4 (1-181) x US-08-476-862-8 (1-140)
QY 52 GTTGTCTCCAAATCCGCCAGAGAGAGGCTTCTATATGTTGCACAACATGTTGA 111
Db 34 ValCysHisProCysGluPro-----GlyPheTyrAsnGlu-AlaValAsnTyrAs 50
QY 112 TTCATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAA 171
Db 50 pThcCysLysGln--CysThrGlnCysAsnHisArgSerGlySerGluLeuLysGlnAs 69
QY 172 T 172
Db 69 n 69
RESULT 15
US-08-974-022-51
Sequence 51, Application US/08974022
Patent No. 6015938
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 51:
SEQUENCE CHARACTERISTICS:
LENGTH: 205 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-022-51

Alignment Scores:
Seq. No.: 4.43 Length: 205
Score: 58.00 Matches: 17
Percent Similarity: 53.66% Conservative: 5
Best Local Similarity: 41.46% Mismatches: 14
Query Match: 17.90% Indels: 5
DB: 3 Gaps: 2

US-09-049-696-4 (1-181) x US-08-974-022-51 (1-205)

OY 52 GTTGTCTCTCCATCCGCCGACGAGAGGCTTCTATATATGTTGCACAAATGTTGA 111
||||| ||| ||| ||||||||| ||| : : ||
Db 58 VALCYSHSPRCYSGIUPRO-----GLYPHETYSANGLU-ALAVAIASNITYRAS 74
OY 112 TTCTATAGTGAATCTGTACAGAACCAACCAACAAAGACTCCAAACAGCAAAA 171
: : : : ||||| : : ||||| : : : |||||||
Db 74 pthrcyslsgln---cysthrnglncysasnhsarserglysergluleulysglinas 93
OY 172 T 172
|
Db 93 n 93

Search completed: October 17, 2002, 17:59:14
Job time : 7.08397 secs

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 ; Search time 8.64785 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-3

Perfect score: 240

Sequence: 1 AAATGCTGATGTTCTGTT.....GAAATCTACTATTCATG 240

Scoring table: IDENTITY_NTC

Gapop 10.0 , Gapext 1.0

Number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued_Patents_NA: *
1: /cgn2_6/prodata/2/ina/5A_COMB.seq: *
2: /cgn2_6/prodata/2/ina/5B_COMB.seq: *
3: /cgn2_6/prodata/2/ina/5A_COMB.seq: *
4: /cgn2_6/prodata/2/ina/5B_COMB.seq: *
5: /cgn2_6/prodata/2/ina/PCTUS_COMB.seq: *
6: /cgn2_6/prodata/2/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	238.4	99.3	3007	4	US-09-193-562D-27
2	109.8	45.7	401	4	US-09-221-298-34
3	99.6	41.5	3418	4	US-09-193-562D-29
4	94.8	39.5	3317	4	US-09-193-562D-1
5	93	38.8	3022	4	US-09-193-562D-33
6	77.6	32.3	2970	4	US-09-193-562D-31
7	34	14.2	5319	1	US-08-169-927-1
8	32.4	13.5	1423	4	US-08-916-576B-3
9	30.6	12.8	4403765	4	US-09-103-840A-2
10	30.6	12.8	4411529	4	US-09-103-840A-1
11	30	12.5	302	4	US-08-916-576B-19
12	30	12.5	306	2	US-08-465-580-12
13	30	12.5	306	2	US-08-480-478-41
14	30	12.5	306	2	US-08-486-397-12
15	30	12.5	306	2	US-08-486-399-12
16	30	12.5	306	2	US-08-461-965-12
17	30	12.5	306	2	US-08-326-110A-41
18	30	12.5	306	2	US-08-634-641-12
19	30	12.5	306	3	US-09-249-471-12
20	30	12.5	306	3	US-09-249-472-12
21	30	12.5	306	3	US-09-249-451-12
22	30	12.5	306	3	US-08-809-455-12
23	30	12.5	306	3	US-09-249-461-12
24	30	12.5	306	3	US-09-249-448-12
25	30	12.5	4693	4	US-09-359-756-1
26	28.8	12.0	771	4	US-08-991-789A-241
27	28.8	12.0	771	4	US-09-062-451-241

28	28.6	11.9	1000	3	US-08-961-083-53	Sequence 53, Appl
c	28.4	11.8	1815	4	US-09-042-785A-24	Sequence 24, Appl
c	30	28.4	2186	3	US-08-959-382-1	Sequence 1, Appl
c	31	28.4	2632	4	US-09-042-785A-3	Sequence 3, Appl
c	32	28.4	2638	4	US-09-042-785A-22	Sequence 22, Appl
c	33	28.4	3474	4	US-09-527-236A-1	Sequence 1, Appl
c	34	27.6	2071	1	US-08-393-985-15	Sequence 15, Appl
c	35	27.6	11.5	1	US-08-647-351B-1	Sequence 1, Appl
36	27.2	11.3	4032	1	US-08-107-748-3	Sequence 3, Appl
37	27.2	11.3	4032	1	US-08-245-809-4	Sequence 4, Appl
38	27.2	11.3	4032	5	PCT-US92-01385-3	Sequence 3, Appl
39	26.8	11.2	1101	4	US-08-979-616-1	Sequence 1, Appl
40	26.8	11.2	3417	2	US-08-978-458-7	Sequence 7, Appl
41	26.8	11.2	3417	3	US-08-978-454-7	Sequence 7, Appl
42	26.8	11.2	3417	4	US-09-385-288-7	Sequence 7, Appl
43	26.8	11.2	3417	4	US-08-977-555-7	Sequence 7, Appl
44	26.8	11.2	3417	4	US-08-979-616-7	Sequence 7, Appl
45	26.8	11.2	87350	3	US-08-781-891-79	Sequence 79, Appl

ALIGNMENTS

```
RESULT 1
US-09-193-562D-27
; Sequence 27, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-193-562D-27

Query Match      99.3%   Score 238.4:   DB 4:   Length 3007:
Best Local Similarity 99.6%:   Pred. No. 1.9e-70:
Matches 239:   Conservative 0:   Mismatches 1:   Indels 0:   Gaps 0:

QY 1 AAATGCTGATGTTCTGTTCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 60
    |||||||
DB 345 AAATGCTGATGTTCTGTTCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 404
    |||||||

QY 61 AGCAGATGGGCACTGTGAGAGAGAGGGAAGAGATCCACCTCCTGATTCATG 120
    |||||||
DB 405 AGCAGATGGGCACTGTGAGAGAGAGGGAAGAGATCCACCTCCTGATTCATG 464
    |||||||

QY 121 CAGAAAAAAGTTAGCTGATATGACCAAGATGAGGATTTGTCACGAGGGCTC 180
    |||||||
DB 465 CAGAAAAAAGTTAGCTGATATGACCAAGATGAGGATTTGTCACGAGGGCTC 524
    |||||||

QY 181 ATTCAGATGGGAGATTTGAGCAGATACCAATATGATGAGAAATTTCTACTATTCATG 240
    |||||||
DB 525 ATTCAGATGGGAGATTTGAGCAGATACCAATATGATGAGAAATTTCTACTATTCATG 584
    |||||||

RESULT 2
US-09-221-298-34
; Sequence 34, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471
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;; CURRENT APPLICATION NUMBER: US/09/221,298
;; CURRENT FILING DATE: 1998-12-23
;; NUMBER OF SEQ ID NOS: 112
;; SOFTWARE: FastSeq for Windows, Version 3.0
;; SEQ ID NO 34
;; LENGTH: 401
;; TYPE: DNA
;; ORGANISM: Human
US-09-221-298-34

Query Match
Best Local Similarity 45.7%; Score 109.8; DB 4; Length 401;
Matches 170; Conservative 0; Mismatches 7; Indels 6; Gaps 5;

QY 1 AAATGCTGATGTTCTGTTGTC-TGAGTCTACTCTCCAGGTATGTAAGCTTCACT 59
DB 215 AAATGCTGATGTTCTGTTGTTGTTGCTGAGTCTACTCTCCAGGTATGTAAGCTTCACT 274
QY 60 GAGCAGAT-GGGCACTGTGGAGAGAGG--TGAAGAGTCCACCTCACTCTGATTTTC 116
DB 275 GAGCAGATGGGGCACTGTGGAGAGAGG--TGAAGAGTCCACCTCACTCTGATTTTC 334
QY 117 ATTGACGAAAAAGTTAGC-TGAATATGACCAACAGT-AGGCAATTTGTCATGAGT 174
DB 335 ATTGACGAAAAAGTTAGCTTGAATATGACCAACAGTAAAGGCAATTTGTCATGAGT 394
QY 175 GGG 177
DB 395 GGG 397

RESULT 3
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match
Best Local Similarity 41.5%; Score 99.6; DB 4; Length 3418;
Matches 150; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 4 ATGCGATGTTCTGTTGCTGAGTCTCTCCAGGTATGTAAGCTTCACTGAGC 63
DB 317 AGCGAGATGTCATGATGCTGCTTACCTGAATACGAGATGATCCCTTACACTTC 376
QY 64 AGATGGGCAACTGTGGAGAGAGGGAAGATCCACTCACTCTGATTTCAATGGAG 123
DB 377 AATATGCAATATGAGATTAAGGCAATATATACATTTTACCTCAACTCTTCTGTTGA 436
QY 124 GAAAAAGTTAGCTGAATATGAGCACAAGGTAGGCAATTTTGCATAGTGGGCTATC 183
DB 437 CTAATTAAGTCTGCTACCTATGAGGCTCGAGTAAGTATTTTCCATGAGGTGGCCATC 496
QY 184 TACGATGGGAGTATTTGACGATACATATATGATGAGAAATTTCACTTATCCA 237
DB 497 TCCGCTGGGAGTATTTGATGATATATATGAGCAGCAGCATTTATATTTCCA 550

RESULT 4

US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
US-09-193-562D-1

Query Match
Best Local Similarity 39.5%; Score 94.8; DB 4; Length 3317;
Matches 147; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 4 ATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTATGTAAGCTTCACTGAGC 63
DB 361 AGCGAGATGTCATGATGCTGATATCCCTATCTAAATATGAGATATATCCATACCTTC 420
QY 64 AGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACTCACTCTGATTTCAATTTGAG 123
DB 421 AATATGAAAGTGTGGAGAGAGAGAGAAATATATATATTTCTCCAACTCTGTTGA 480
QY 124 GAAAAAGTTAGCTGAATATGAGCACAAGGTAGGCAATTTTCCATGAGTGGCTATC 183
DB 481 CTAATTAATTTTCCATCTATGAGTCCGAGCAGATATTTGTCATGAGTGGCCATC 540
QY 184 TACGATGGGAGTATTTGACGATACATTAATGATGAGAAATTTCACTTATCCA 237
DB 541 TCCGCTGGGAGTATTTGATGATATATATGAGCAGCAGCATTTATATTTCCA 594

RESULT 5
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match
Best Local Similarity 38.8%; Score 93; DB 4; Length 3022;
Matches 147; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1 AAATGCTGATGTTCTGTTGCTGAGTCTCTCCAGGTATGTAAGCTTCACTGAGC 60
DB 313 ACAAAGAGAGTATATTTGCGATCTCTCACTGACATGAGAGAGCAGCCCTACACCC 372
QY 61 AGCAGATGGCACTGTGGAGAGAGGTTGAAGAGATCCACTCACTCTGATTTCAATG 120

Db 1930 TCAAAATATTAGCACTCGATGGCGCAATATTA 1963

RESULT 8
US-08-916-576B-3

US-08-916-576B-3
; Sequence 3, Application US/08916576B

Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBERN, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESSES:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

Query Match	13.5%	Score 32.4	DB 4	Length 1423
Best Local Similarity	47.9%	Pred. No. 0.16		
Matches 93: Conservative		0; Mismatches 101;	Indels 0;	Gaps 0

Qy 47 TGNACCCCTACACTGACGAGATGGGCACTGTGAGAGAGAAGGCTTAAAGATCCACCTCAC 106
Db 285 TGGAGCTGGCCAAAGCTCTAAAGCCCAAAATTTGACGAATCTACGGAAATTTCCAGACTCTC 344
Qy 107 TCCGTGATTTTCATGCGAGGAAAAAGTAGTCAATATGACACCAAGGTAGGGCATTTGT 166
Db 345 CCATATATTTTGTATGCTGTAATCTTGAGATGTAAGAGGAAOCCCAAGATGAAGATTTTCAG 404
Qy 167 CCATGAGTGGGCTCATCTACGATGGGAGTATTTCACGACGTACATATATGATGGAATTT 226

Db	405	CCCTGACCGGGGTTATATTCACGAATCCTTTTCTGGATCCCAAGTGGCAAGGTCATCC	464
QY	227	CTACTATTCATG	240
Dd	465	TGAATCATCATG	478

RESULT 9
US-09-103-840A-2

US-09-103-840A-2

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? Sequence 2 Application US/09103840A
? Patent No. 6294328
? GENERAL INFORMATION:
? APPLICANT: FLEISCHMAN, Robert D.
? APPLICANT: WHITE, Owen R.
? APPLICANT: FRASER, Claire M.
? APPLICANT: VENTER, John C.
? TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
? TUBERCULOSIS
? FILE REFERENCE: 24366-20007.00
? CURRENT APPLICATION NUMBER: US/09/103,840A
? CURRENT FILING DATE: 1998-06-24
? NUMBER OF SEQ ID NOS: 2
? SOFTWARE: Patentin Ver. 2.1
? SEQ ID NO 2
? LENGTH: 4403765
? TYPE: DNA
? ORGANISM: Mycobacterium tuberculosis
? FEATURE:
? OTHER INFORMATION: CDC 1551
? OTHER INFORMATION: "n" bases at various positions throughout the sequence
? OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

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Query Match	12.8%;	Score 30.6;	DB 4;	Length 4403765;
Best Local Similarity	53.8%;	Pred. No. 13;		
Matches 63;	Conservative	0;	Mismatches 54;	Indels 0;
				Gaps 0;

Qy 35 TCAGTATATATGAAACCTCACTGAGCAATATGGCAATCTGTGACAGAAAGGTGAAG 94
Db 421794 TTCCGGCGACAGTAAACCGTCACTGACAAACGGCGGATCGATCCGAGACGGGTGAAGT 421853
Qy 95 GATCCACTCACTCTGTATTTCAATTGACAGAAAAAGTTAGCTAATATATGACACCA 151
Db 421854 GCGGACAGCTCCCTCCCGCGACATATCCGGGAGGAGCGCTCCGGCCGATGGGCGCA 421910

RESULT 10

US-09-103-840A-1

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? Sequence 1, Application US/09103840A
? Patent No. 6294328
?
? GENERAL INFORMATION:
? APPLICANT: FLEISCHMAN, Robert D.
? APPLICANT: WHITE, Owen R.
? APPLICANT: FRASER, Claire M.
? APPLICANT: VENTER, John C.
?
? TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
?
? TITLE OF INVENTION: TUBERCULOSIS
?
? FILE REFERENCE: 24366-20007.00
?
? CURRENT APPLICATION NUMBER: US/09/103,840A
?
? CURRENT FILING DATE: 1998-06-24
?
? NUMBER OF SEQ ID NOS: 2
?
? SOFTWARE: PatentIn Ver. 2.1
?
? SEQ ID NO 1
?
? LENGTH: 4411529
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? TYPE: DNA
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? ORGANISM: Mycobacterium tuberculosis
?
? OTHER INFORMATION: H3/RV
?
? US-09-103-840A-1

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Query Match	12.8%;	Score 30.6;	DB 4;	Length 4411529;
Best Local Similarity	53.8%;	Pred. No. 13;		
Matches 63;	Conservative 0;	Mismatches 54;	Indels 0;	Gaps 0;


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1      TITLE OF INVENTION:  NEMATODE-EXTRACTED ANTICOAGULANT
2      TITLE OF INVENTION:  PROTEIN
3      NUMBER OF SEQUENCES:  357
4      CORRESPONDENCE ADDRESS:
5      ADDRESSEE:  Lyon & Lyon
6      STREET:  633 West Fifth Street
7      STREET:  Suite 4700
8      CITY:  Los Angeles
9      STATE:  California
10     COUNTRY:  U.S.A.
11     ZIP:  90071
12     COMPUTER READABLE FORM:
13     MEDIUM TYPE:  3.5" Diskette, 1.44 MB
14     MEDIUM TYPE:  storage
15     OPERATING SYSTEM:  IBM P.C. DOS 5.0
16     SOFTWARE:  Word Perfect 5.1
17     CURRENT APPLICATION DATA:
18     APPLICATION NUMBER:  US/08/486,397
19     FILING DATE:  June 5, 1995
20     CLASSIFICATION:  530
21     PRIOR APPLICATION DATA:
22     APPLICATION NUMBER:  08/326,110
23     FILING DATE:  October 18, 1994
24     ATTORNEY/AGENT INFORMATION:
25     NAME:  BIGGS, SUZANNE L.
26     REGISTRATION NUMBER:  30,158
27     REFERENCE/DOCKET NUMBER:  213/269
28     TELECOMMUNICATION INFORMATION:
29     TELEPHONE:  (213) 489-1600
30     TELEFAX:  (213) 955-0440
31     TELEX:  67-3510
32     INFORMATION FOR SEQ ID NO:  12:
33     SEQUENCE CHARACTERISTICS:
34     LENGTH:  396 base pairs
35     TYPE:  nucleic acid
36     STRANDEDNESS:  single
37     TOPOLOGY:  linear
38     ORIGINAL SOURCE:
39     ORGANISM:  Ancylostoma duodenale
40     FEATURE:
41     NAME/KEY:  Coding Sequence
42     LOCATION:  10...237
43     US-08-486-397-12
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45     Query Match          12.5%;  Score 30;  DB 2;  Length 396;
46     Best Local Similarity 54.5%;  Pred. No. 0.61;
47     Matches 60;  Conservative 0;  Mismatches 50;  Indels 0;  Gaps 0;
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49     QY  20  TCGTAGCTACTCTCCAGTATGATGAACCTACACTGACAGATGGCACTGTGG  79
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51     DB  123  TCGAAGATCGCGTGTGGTATGCATGACGATATATACAGACAAAGTTGGCAACTGTGT  182
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53     QY  80  AGAAGAAGGTGAAGAAGATCCACCTCACTCTGATTTTCATTTGCAAGAAAA  129
54           ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
55     DB  183  TGAAGAAGACGAATGCACGATATGTGAGATATTACTTTTGACACGAGAA  232
56
57 RESULT 15
58 US-08-486-399-12
59 ; Sequence 12, Application US/08486399
60 ; Patent No. 5866543
61 ; GENERAL INFORMATION:
62 ; APPLICANT:  George P. Vlasuk, Patric H. Stanssens,
63 ; APPLICANT:  Joris H. L. Mensens, Marc J. Lauwereys,
64 ; APPLICANT:  Yves R. Laroche, Laurent S. Jespers,
65 ; APPLICANT:  Yannick G.J. Ganssema, Matthew Moyle,
66 ; APPLICANT:  Peter W. Bergum
67 ; TITLE OF INVENTION:  NEMATODE-EXTRACTED ANTICOAGULANT
68 ; TITLE OF INVENTION:  PROTEIN
69 ; NUMBER OF SEQUENCES:  356
70 ; CORRESPONDENCE ADDRESS:
71 ; ADDRESSEE:  Lyon & Lyon
72 ;

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Tue Oct 22 11:22:29 2002

us-09-049-696-3.rni

Page 7

STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,399
FILING DATE: June 5, 1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/326,110
FILING DATE: October 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: BIGGS, SUZANNE L.
REGISTRATION NUMBER: 30,158
REFERENCE/DOCKET NUMBER: 213/270
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 396 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: Ancylostoma duodenale
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 10...237
US-08-486-399-12

	Query Match	12.5%	Score 30;	DB 2;	Length 396;	
	Best Local Similarity	54.5%;	Pred. No. 0.61;			
	Matches	60;	Conservative	0;	Mismatches	50; Indels 0; Gaps 0;
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Rb	123	TGACAGATGCCCTTGCGTATGCATGACAGCGATTATACACAGACAAGTTGGCACCTGT	182			
	80	AGAGAAGGGTGAAGAGATCCACCCTCATCCCTGATTTCATGGACGGAAAA	129			
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Job time : 1912.65 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 6.74118 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-3
Perfect score: 442
Sequence: 1 AAATGCTGATGTTCTGCTGTT.....GAATCTACTATATCAATG 240

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Xgapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DB=Issued_Patents_AA -OPMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
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-USER=US09049696 -ECGN_1_1_57=runat_16102002_115821_24739 -NCPU=6 -ICPU=3
-NO_XLPHY -NO_MMAPP -LARGEUDERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_AA:
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6: /cgn2_6/ptodata/2/iaa/Backfilltest.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	439	99.3	914	4	US-09-193-562D-28
2	265	60.0	903	4	US-09-193-562D-46
3	265	60.0	1000	4	US-09-193-562D-30
4	255	57.7	342	4	US-09-193-562D-13
5	255	57.7	795	4	US-09-193-562D-11
6	255	57.7	821	4	US-09-193-562D-12
7	255	57.7	902	4	US-09-193-562D-34
8	235	57.7	905	4	US-09-193-562D-2
9	239.5	54.2	943	4	US-09-193-562D-32
c 10	61	13.6	171	5	PCT-US93-02475-12
11	60	13.6	451	1	US-08-453-117-2
12	60	13.6	451	2	US-08-948-222-2

13	60	13.6	451	2	US-08-973-145-2	Sequence 2, Appli
14	60	13.6	451	4	US-09-276-400-10	Sequence 10, Appl
15	60	13.6	451	4	US-09-448-076-10	Sequence 10, Appl
16	60	13.6	451	5	PCT-US96-08081-2	Sequence 2, Appli
17	60	13.6	5588	4	US-09-036-987A-6	Sequence 6, Appli
18	60	13.6	5588	4	US-09-370-700-6	Sequence 6, Appli
19	59.5	13.5	617	4	US-09-314-242-2	Sequence 2, Appli
20	59	13.3	857	1	US-08-022-835-4	Sequence 2, Appli
21	59	13.3	857	1	US-08-388-809-4	Sequence 4, Appli
22	59	13.3	857	2	US-08-647-714-4	Sequence 4, Appli
23	59	13.3	1833	3	US-08-479-722B-2	Sequence 2, Appli
24	59	13.3	1833	5	PCT-US95-02251-18	Sequence 18, Appl
25	58	13.1	267	4	US-08-965-056-15	Sequence 15, Appl
26	58	13.1	582	3	US-09-034-117-1	Sequence 1, Appli
27	58	13.1	856	1	US-08-022-835-2	Sequence 2, Appli
28	58	13.1	856	1	US-08-388-809-2	Sequence 2, Appli
29	58	13.1	856	1	US-08-375-100-1	Sequence 1, Appli
30	58	13.1	856	2	US-08-647-714-2	Sequence 1, Appli
31	58	13.1	856	4	US-07-956-483-11	Sequence 11, Appli
32	58	13.1	993	1	US-08-468-557-2	Sequence 2, Appli
33	56.5	12.8	271	2	US-08-872-961A-4	Sequence 4, Appli
34	56.5	12.8	271	2	US-09-231-258-4	Sequence 4, Appli
35	56.5	12.8	323	1	US-07-992-827D-1	Sequence 1, Appli
36	56.5	12.8	323	1	US-08-216-593-1	Sequence 1, Appli
37	56.5	12.8	323	5	PCT-US93-12380-1	Sequence 1, Appli
38	56.5	12.8	431	1	US-08-391-339-18	Sequence 18, Appl
39	56.5	12.8	431	1	US-08-484-274A-18	Sequence 18, Appl
40	56.5	12.8	510	1	US-08-484-493-11	Sequence 11, Appl
41	56.5	12.8	510	1	US-08-484-494-11	Sequence 11, Appl
42	56.5	12.8	510	2	US-08-345-212-11	Sequence 11, Appl
43	56.5	12.8	510	4	US-09-249-003-11	Sequence 4, Appli
44	56.5	12.8	679	2	US-08-462-481-4	Sequence 4, Appli
45	56.5	12.8	679	2	US-08-436-771-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Paul, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO: 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28
Alignment Scores:
Pred. No.: 8.37e-51
Score: 439.00
Percent Similarity: 100.00%
Best Local Similarity: 98.73%
Query Match: 99.32%
DB: 4
Gaps: 0
US-09-049-696-3 (1-240) x US-09-193-562D-28 (1-914)
QY 3 AATGCTGATGTTCTGCTGAGTCTCTCCAGTAATGATGAACCTACACTGAG 62
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Db 101 AaataaapvalleuvalaAagIuBerThrProProGlyAsnAspGluProtyrThrglu 120
QY 63 CAGATGGCACTGGAGAGAGAGGTAAGAGATCAACCTACCTGATTCATTGCA 122
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0y      6 GCTGATGTTCTGGTGGAGCTACTCTCTCCAGGTAAATGATGAACCCCTAACCTAGCAG 65
          |||.....|||  |||.....|||  |||
Db      101 AAGAGUAlIILlEVALAlAAsnPrOTyrlEulYshISglYAsPAsPPrOTyrlThrlEuln 120
          |||.....|||  |||.....|||  |||
0y      66 ATGGCACTGtGnGAGAGAAAGGtGAAGGATCCACCTCACCTCCGATTTCATTCAGGA 125
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0y      126 AAAAGATTAGCTGAATATATGACACACACnAGGTAGGCGATTGTTCATGAGTGGGCTCATCA 185
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0y      186 CGATGGGAGATATTGACGAGATACATATGATGAGAAATTCTACTATACC 236
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Db      161 ArgTrpGlyIlePhAsPclulTrYAsnGlYAsPglInPrOphETyrlIleSer 177

RESULT 3
US-09-193-562D-30
: Sequence 30, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193.562D
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17

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Db 121 TyrGlyArgCysGlyIuLysGlyLysTyrIleHisPheThrProAsnPheLeuThr 140

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OY 126 AAAAGTTAGCTGAATATGACACAGGAGGCGATTGTCATGAGTGGGCTCATCTA 185
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Db 141 AsnaspheHISileTyGlySerArgGlyArgValPheValHISgluTrrPalaHISleu 160
OY 186 CGATGGGAGATTTTGACGAGTACATATATGAGAAATTCCTACTTATCC 236
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 161 ArgTrpGlyIlePheAspGluTyrAsnValAspGlnProPheTyrlIeSer 177

RESULT 5
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 5,39e-26 Length: 795
Score: 255.00 Matches: 45
Percent Similarity: 70.13% Conservative: 9
Best Local Similarity: 58.44% Mismatches: 23
Query Match: 57.69% Indels: 0
Gaps: 0
DB: 4

US-09-049-696-3 (1-240) x US-09-193-562D-11 (1-795)

OY 6 GCTGATGTTGCTGGTCTGAGTCTACTCTCCAGGTAATGAAACCTACAGTGCAGAG 65
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OY 66 ATGGCAACTGTGGAGAGAGGTTGAAGATCCACCTCCTCGATTGTCATTCACAGAGA 125
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Db 121 TyrGlyArgCysGlyGluLysGlyLysTyrIleHISpHeThrProAsnPheIeuLeuThr 140
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 126 AAAAGTTAGCTGAATATGACACAGGAGGCGATTGTCATGAGTGGGCTCATCTA 185
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Db 141 AsnaspheHISileTyGlySerArgGlyArgValPheValHISgluTrrPalaHISleu 160

OY 186 CGATGGGAGATTTTGACGAGTACATATATGAGAAATTCCTACTTATCC 236
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Db 161 ArgTrpGlyIlePheAspGluTyrAsnValAspGlnProPheTyrlIeSer 177

RESULT 6
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
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; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 5,45e-26 Length: 821
Score: 255.00 Matches: 45
Percent Similarity: 70.13% Conservative: 9
Best Local Similarity: 58.44% Mismatches: 23
Query Match: 57.69% Indels: 0
Gaps: 0
DB: 4

US-09-049-696-3 (1-240) x US-09-193-562D-12 (1-821)

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Db 101 AlaSpValIleValAlaAsnProTyrIleuLysTyrGlyAspAspProTyrThrIeuGln 120
OY 66 ATGGCAACTGTGGAGAGAGGTTGAAGATCCACCTCCTCGATTGTCATTCACAGAGA 125
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 TyrGlyArgCysGlyGluLysGlyLysTyrIleHISpHeThrProAsnPheIeuLeuThr 140
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 126 AAAAGTTAGCTGAATATGACACAGGAGGCGATTGTCATGAGTGGGCTCATCTA 185
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 141 AsnaspheHISileTyGlySerArgGlyArgValPheValHISgluTrrPalaHISleu 160

OY 186 CGATGGGAGATTTTGACGAGTACATATATGAGAAATTCCTACTTATCC 236
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 161 ArgTrpGlyIlePheAspGluTyrAsnValAspGlnProPheTyrlIeSer 177

RESULT 7
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 5,62e-26 Length: 902
Score: 255.00 Matches: 45
Percent Similarity: 71.43% Conservative: 10
Best Local Similarity: 58.44% Mismatches: 22
Query Match: 57.69% Indels: 0
Gaps: 0
DB: 4

US-09-049-696-3 (1-240) x US-09-193-562D-34 (1-902)

OY 6 GCTGATGTTGCTGGTCTGAGTCTACTCTCCAGGTAATGAAACCTACAGTGCAGAG 65
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 101 AlaSpValIleValAlaAspProHISleuGlnHISgluYAspAspProTyrThrIeuGln 120
OY 66 ATGGCAACTGTGGAGAGAGGTTGAAGATCCACCTCCTCGATTGTCATTCACAGAGA 125
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 TyrGlyArgCysGlyAspArgGlyGluTyrIleHISpHeThrProAsnPheIeuLeuThr 140
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 126 AAAAGTTAGCTGAATATGACACAGGAGGCGATTGTCATGAGTGGGCTCATCTA 185
      ||||| ::||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 141 AspAsnIeuArgIleTyGlyProArgGlyArgValPheValHISgluTrrPalaHISleu 160
```

OY 186 CGATGGGAGTATTGACGAGTACAAATATGATGAGAAATTCCTACTATCC 236
 |||||
 DB 161 AAGTTPGlyValPheAspGlyTyrAsnValAspArgSerProtyrIleSer 177

RESULT 8

US-09-193-562D-2
 ; Sequence 2, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedicht U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; PRIOR FILING DATE: 1997-11-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 2
 ; LENGTH: 905
 ; TYPE: PRT
 ; ORGANISM: Unknown
 ; FEATURE:
 ; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells.
 US-09-193-562D-2

Alignment Scores:
 Pred. No.: 5,63e-26 Length: 905
 Score: 255.00 Matches: 45
 Percent Similarity: 70.13% Conservative: 9
 Best Local Similarity: 58.44% Mismatches: 23
 Query Match: 57.69% Indels: 0
 DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-193-562D-2 (1-905)
 OY 6 GCTGATGTTCTGTTGCTGAGTACTCTCCAGGTAATGATGAAACCTTCACTGAGCAG 65
 |||||
 DB 101 AAlaspyValIleValAlaAsnProtyrLeuIlyrGlyAspAspProtyrIleuGln 120
 OY 66 ATGGGCAACTGTGAGAGAAAGGTGAAAGATCCACTCTCTCTGATTCATTCGACGA 125
 |||||
 DB 121 TyrcIlyArgCysGlyGlyLysGlyLysTyrIleHisPheThrProAsnPheLeuThr 140
 OY 126 AAAAAGTTAGTGAATATGACGAGTACAAATATGATGAGAAATTCCTACTATCC 185
 |||||
 DB 141 AsnAsnPheHisIleTyrGlySerArgGlyArgValPheValHisGlyIleThrPalaHisLeu 160

RESULT 9

US-09-193-562D-32
 ; Sequence 32, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedicht U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; PRIOR FILING DATE: 1997-11-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 32
 ; LENGTH: 943
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-193-562D-32

Alignment Scores:

Pred. No.: 7.04e-24 Length: 943
 Score: 239.50 Matches: 43
 Percent Similarity: 71.79% Conservative: 13
 Best Local Similarity: 55.13% Mismatches: 21
 Query Match: 54.19% Indels: 1
 DB: 4 Gaps: 1

US-09-049-696-3 (1-240) x US-09-193-562D-32 (1-943)

OY 6 GCTGATGTTCTGTTGCTGAGTACTCTCCAGGTAATGATGAAACCTTCACTGAGCAG 65
 |||||
 DB 109 AAlaspyValIleValAlaAsnProtyrLeuIlyrGlyAspAspProtyrIleuGln 128
 OY 66 ATGGGCAACTGTGAGAGAAAGGTGAAAGATCCACTCTCTGATTCATTCGACGA 125
 |||||
 DB 129 TyrcIlyArgCysGlyGlyLysGlyLysTyrIleHisPheThrProAsnPheLeuThr 148
 OY 126 AAAAAGTTA---GCTGATATGACGACCAAGGTGAGGATTCCTGATGAGGCTCAT 182
 |||||
 DB 149 AsnAsnLeuThrAlaGlyTyrGlySerArgGlyArgValPheValHisGlyIleThrPalaHis 168
 OY 183 CTACGATGGGAGTATTGACGAGTACAAATATGATGAGAAATTCCTACTATCC 236
 |||||
 DB 169 LeuAgtTPGlyValPheAspGlyTyrAsnValAspArgSerProtyrIleAsn 186

RESULT 10

PCT-US93-02475-12
 ; Sequence 12, Application PC/RUS9302475
 ; GENERAL INFORMATION:
 ; APPLICANT: Winkleski, Bernadine J.
 ; TITLE OF INVENTION: Tumor Necrosis Factor with Modified
 ; FILE REFERENCE: 18617.0052
 ; CURRENT FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; PRIOR FILING DATE: 1997-11-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 32
 ; LENGTH: 943
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-193-562D-32

OTHER INFORMATION: human lymphotoxin.
PUBLICATION INFORMATION:
AUTHORS: Ito, H., Shirai, T., Yamamoto, S.,
AUTHORS: Akira, M., Kawahara, S., Todd, C.W.
AUTHORS: and Wallace, R.B.
TITLE: Molecular Cloning of the Gene Encoding
TITLE: Rabbit Tumor Necrosis Factor.
JOURNAL: DNA
VOLUME: 5
PAGES: 157-165
DATE: 1986
RELEVANT RESIDUES IN SEQ ID NO: 12: 1-171 (includes
PCT-US93-02475-12 RELEVANT RESIDUES IN SEQ ID NO: 2 blanks)
PCT-US93-02475-12

Alignment Scores:
Pred. No.: 4.89 Length: 171
Score: 61.00 Matches: 24
Percent Similarity: 38.55% Conservative: 8
Best Local Similarity: 28.92% Mismatches: 29
Query Match: 13.74% Indels: 22
DB: 5 Gaps: 3

US-09-049-696-3 (1-240) x PCT-US93-02475-12 (1-171)
QY 217 TCATTATGTACTGTCATACCTCCCATGCTAGATGAGCCAC-----TCATGACA 164
Db 42 Seruunatgrtpragalaasnrhrasprgalaaheluaiahisgllypheserleu 61
QY 163 AATGCCCTACCTGCTGTCATATTCAGCTAATCTTTT-----CTGCATGAAA 113
Db 62 Asn**pPheProCysGlyProSerSerGlyLeuYrPheValTyrSerGlnValAlphe 81
QY 112 TCAGAA-----GTCG 104
Db 82 SerGlygluGlyCysSerProLysAlaValProThrProLeuTyrLeuAlaHisGlnVal 101
QY 103 AGTGAGATCTTCACCCCTCCGCCACAGTTGCCATCTGCTAGGCTTCATCA 44
Db 102 HisleupheserSerGlnTyrSerPheHisValProLeuSerAlaGlnLysSerVal 121
QY 43 TTACCTGGA 35
Db 122 CysProGly 124

RESULT 11
-08-453-117-2
Sequence 2, Application US/08453117
Patent No. 5683903
GENERAL INFORMATION:
APPLICANT: Lysko, Paul G.
APPLICANT: Elshourbagy, Nabli A.
APPLICANT: Brawner, Mary E.
TITLE OF INVENTION: Attachment Enhanced 293 Cells
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham - Corporate Patents
ADDRESS: U.S.
STREET: Mailcode - UM2220, 709 Swedeland Road
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19406-5090
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,117
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Jervis, Herbert H.
REGISTRATION NUMBER: 31,171
REFERENCE/DOCKET NUMBER: SBC-P50338
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 270-5019
TELEFAX: (610) 270-5090
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-453-117-2

Alignment Scores:
Pred. No.: 9.19 Length: 451
Score: 60.00 Matches: 25
Percent Similarity: 45.33% Conservative: 9
Best Local Similarity: 33.33% Mismatches: 28
Query Match: 13.57% Indels: 13
DB: 1 Gaps: 6

US-09-049-696-3 (1-240) x US-08-453-117-2 (1-451)
QY 36 CCAGGTATGATGAAACCTACACGAGCAGATGGGCACTGTGGAGAGGTTGAAG 95
Db 326 ProGlyAsnSerGlyPro-----LysGlyGlnLysGlyGlnLysGlySerGly 341
QY 96 ATCCACCTACCTGATTCATTCATTCAGAGAAAAGTTAGCTGAATATGACCA---CA 152
Db 342 AsnThrLeuThrPro---PheThrLysValArgLeuValGlyGlySerGlyProHisGlu 360
QY 153 GGRAGGCA---TTTGTCAT-----GATGGGCTATCTA-----CGATGGGA 194
Db 361 GlyArgValGluLeuLeuHisSerGlyGlnTrpGlyThrIleCysAspAspArgTrp-Gl 380
QY 195 GATTTCGAGATCAATATGATGAGAAATTTACTATATCA 237
Db 380 uValArgValGlyGlnValValCysArgSerLeuGlyTyrTrp 394

RESULT 12
US-08-948-222-2
Sequence 2, Application US/08948222
Patent No. 5863798
GENERAL INFORMATION:
APPLICANT: Lysko, Paul G.
APPLICANT: Elshourbagy, Nabli A.
APPLICANT: Brawner, Mary E.
TITLE OF INVENTION: Attachment Enhanced 293 Cells
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham - Corporate Patents
ADDRESS: U.S.
STREET: Mailcode - UM2220, 709 Swedeland Road
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19406-5090
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/948,222
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/453,117
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jervis, Herbert H.
REGISTRATION NUMBER: 31,171

```
REFERENCE/DOCKET NUMBER: SBC-P50338
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 270-5019
TELEFAX: (610) 270-5090
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-948-222-2

Alignment Scores:
Pred. No.: 9.19 Length: 451
Score: 60.00 Matches: 25
Percent Similarity: 45.33% Conservative: 9
Best Local Similarity: 33.33% Mismatches: 28
Query Match: 13.57% Indels: 13
Gaps: 6
DB: 2

09-049-696-3 (1-240) x US-08-948-222-2 (1-451)
36 CCAGGTAATGATGACCTGACAGAGATGGGCAAGTGTGAGAGAGGTTGAAGG 95
|||||
326 ProGlyAsnSerGlyPro-----LysGlyGlnLysGlyGlnLysGlySerGly 341
QY 96 ATCCACCTCACTCCTGATTTCATTGTCAGAGAAAAGTTAGCTGAATATGACCA---CAA 152
|||||
342 AsnThrLeuThrPro---PheThrLysValArgLeuValGlyGlySerGlyProHisGlu 360
DB 153 GGTAGGCGCA---TTTGTCAT-----GAGTGGGCTCATCTA-----CGATGGGGA 194
|||||
QY 361 GlyArgValGlnIleLeuHisSerGlyGlnTrpGlyThrIleCysAspArgTyr-GI 380
DB 195 GTATTGACGAGTACATATGATGAGAAATTCATTATCA 237
|
QY 380 uvalargvalglglnvalvalcysargserleuglytyrpro 394
DB

RESULT 13
US-08-973-145-2
Sequence 2, Application US/08973145
Patent No. 5919636
GENERAL INFORMATION:
APPLICANT: Lysko, Paul G.
APPLICANT: Elshourbagy, Nabli A.
APPLICANT: Brawner, Mary E.
TITLE OF INVENTION: Attachment Enhanced 293 Cells
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: SmithKline Beecham - Corporate Patents U.S.
STREET: Mailcode - UM2220, 709 Swedeland Road
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19406-5090
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/973,145
FILING DATE: 26-NOV-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Elizabeth J. Hecht
REGISTRATION NUMBER: P-41, 824
REFERENCE/DOCKET NUMBER: P50338
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 270-5009
TELEFAX: (610) 270-5090
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-049-696-3 (1-240) x US-08-973-145-2 (1-451)
36 CCAGGTAATGATGACCTGACAGAGATGGGCAAGTGTGAGAGAGGTTGAAGG 95
|||||
326 ProGlyAsnSerGlyPro-----LysGlyGlnLysGlyGlnLysGlySerGly 341
QY 96 ATCCACCTCACTCCTGATTTCATTGTCAGAGAAAAGTTAGCTGAATATGACCA---CAA 152
|||||
342 AsnThrLeuThrPro---PheThrLysValArgLeuValGlyGlySerGlyProHisGlu 360
DB 153 GGTAGGCGCA---TTTGTCAT-----GAGTGGGCTCATCTA-----CGATGGGGA 194
|||||
QY 361 GlyArgValGlnIleLeuHisSerGlyGlnTrpGlyThrIleCysAspArgTyr-GI 380
DB 195 GTATTGACGAGTACATATGATGAGAAATTCATTATCA 237
|
QY 380 uvalargvalglglnvalvalcysargserleuglytyrpro 394
DB

RESULT 14
US-09-276-400-10
Sequence 10, Application US/09276400
Patent No. 6140056
GENERAL INFORMATION:
APPLICANT: Khodadoust, Mehran
TITLE OF INVENTION: NOVEL MSP-18 PROTEIN AND NUCLEIC ACID MOLECULES AND
FILE REFERENCE: MNI-073
CURRENT APPLICATION NUMBER: US/09/276,400
CURRENT FILING DATE: 1999-03-25
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 451
TYPE: PRT
ORGANISM: Homo sapiens
US-09-276-400-10

Alignment Scores:
Pred. No.: 9.19 Length: 451
Score: 60.00 Matches: 25
Percent Similarity: 45.33% Conservative: 9
Best Local Similarity: 33.33% Mismatches: 28
Query Match: 13.57% Indels: 13
Gaps: 6
DB: 4

US-09-049-696-3 (1-240) x US-09-276-400-10 (1-451)
36 CCAGGTAATGATGACCTGACAGAGATGGGCAAGTGTGAGAGAGGTTGAAGG 95
|||||
326 ProGlyAsnSerGlyPro-----LysGlyGlnLysGlyGlnLysGlySerGly 341
QY 96 ATCCACCTCACTCCTGATTTCATTGTCAGAGAAAAGTTAGCTGAATATGACCA---CAA 152
|||||
342 AsnThrLeuThrPro---PheThrLysValArgLeuValGlyGlySerGlyProHisGlu 360
DB 153 GGTAGGCGCA---TTTGTCAT-----GAGTGGGCTCATCTA-----CGATGGGGA 194
|||||
QY 361 GlyArgValGlnIleLeuHisSerGlyGlnTrpGlyThrIleCysAspArgTyr-GI 380
DB 195 GTATTGACGAGTACATATGATGAGAAATTCATTATCA 237
|
QY 380 uvalargvalglglnvalvalcysargserleuglytyrpro 394
DB
```


QY 195 GTATTGACAGTACATATATGAGAAATTCCTATATCCA 237
| : : : : : ||| : : |||||
Db 380 uValArgValGlyGlnValValCysArgSerLeuGlyTyrPro 394

RESULT 15
US-09-448-076-10

; Sequence 10, Application US/09448076
; Patent No. 6300092

; GENERAL INFORMATION:

; APPLICANT: Rhodadoust, Mehran et al.

; TITLE OF INVENTION: METHODS OF USE OF A NOVEL LYSYL OXIDASE-RELATED PROTEIN

; FILE REFERENCE: MN1-073CP

; CURRENT APPLICATION NUMBER: US/09/448,076

; FILING DATE: 1999-11-23

; EARLIER APPLICATION NUMBER: 60/117,580

; EARLIER FILING DATE: 1999-01-27

; EARLIER APPLICATION NUMBER: 09/276,400

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 451

TYPE: PRT

ORGANISM: Homo sapiens

US-09-448-076-10

Alignment Scores:

Pred. No.: 9.19

Score: 60.00

Percent Similarity: 45.33%

Best Local Similarity: 33.33%

Query Match: 13.57%

DB: 4

Length: 451

Matches: 25

Conservative: 9

Mismatches: 28

Indels: 13

Gaps: 6

US-09-049-696-3 (1-240) x US-09-448-076-10 (1-451)

QY 36 CCAGTATGATGACCTTACAGTGCAGATGGCACTGTGAGAGAGGGTGAAG 95
||||| : ||| : |||||

Db 326 ProGlyAnSerGlyPro-----LysGlyGlnLysGlyGlnLysGlySerGly 341
||| : ||| : |||||

QY 96 ATCCACCTCCTCTGATTTGATTCAGAGAAAAGTTAGCTGAATATGAGACA--CAA 152
||||| : ||| : |||||

Db 342 AsnThrLeuThrPro---PheThrLysValArgLeuValGlyGlySerGlyProHisGlu 360
||||| : ||| : |||||

QY 153 GGATGGGCA---TTGTCCAT-----GAGTGGGCTCATCTA-----CGATGGGCA 194
||||| : ||| : |||||

Db 361 GlyArgValGlnLeuLeuHisSerGlyGlnTrpGlyThrIleCysAspAspArgTrp-Gl 380
||||| : ||| : |||||

QY 195 GTATTGACAGTACATATATGAGAAATTCCTATATCCA 237
| : : : : : ||| : : |||||

Db 380 uValArgValGlyGlnValValCysArgSerLeuGlyTyrPro 394
| : : : : : ||| : : |||||

Search completed: October 17, 2002, 17:59:12
Job time : 9.74118 secs

11115 Page Blank (uspio)

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OW nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 : Search time 9.08025 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-6

Perfect score: 252

Sequence: 1 CAAGAATTTGTGTTAGT.....GAGGACGTCATCGACG 252

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued_Patents_NA:*

- 1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
- 2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
- 3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
- 4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
- 5: /cgn2_6/ptodata/2/ina/PTCROS.COMB.seq:*
- 6: /cgn2_6/ptodata/2/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	252	100.0	3007	4	US-09-193-562D-27
2	109	43.3	3022	4	US-09-193-562D-33
3	105.4	41.8	3418	4	US-09-193-562D-29
4	103.8	41.2	3317	4	US-09-193-562D-31
5	53.8	21.3	2970	4	US-09-193-562D-31
6	30.8	12.2	1455	1	US-08-832-883-58
7	30.8	12.2	1455	2	US-08-832-877-58
8	30.4	12.1	2047	4	US-09-345-468-1
9	28.2	11.2	3283	4	US-09-061-709-6
10	28.2	11.2	3412	4	US-09-061-709-6
11	28.2	11.2	3581	2	US-08-738-349-1
12	28.2	11.2	40352	3	US-08-846-111D-15
13	27.8	11.0	4138	1	US-08-447-411-75
14	27.8	11.0	4138	2	US-08-662-227-33
15	27.8	11.0	4138	4	US-09-017-947-33
16	27.8	11.0	5211	1	US-08-447-411-1
17	27.8	11.0	5924	1	US-08-447-411-44
18	27.8	11.0	5948	2	US-08-662-227-1
19	27.8	11.0	5948	4	US-09-017-947-1
20	27.6	11.0	343	4	US-08-905-223-169
21	27.6	11.0	2010	4	US-09-247-155-151
22	27.6	11.0	2990	1	US-08-572-951-1
23	27.6	11.0	8655	3	US-09-075-272-1
24	27.4	10.9	1130	1	US-07-864-004B-1
25	27.4	10.9	1130	1	US-08-251-937A-1
26	27.4	10.9	1130	1	US-08-212-133A-5
27	27.4	10.9	1130	1	US-08-474-503-3

28	27.4	10.9	1130	2	US-08-670-707A-3	Sequence 3, Appl1
29	27.4	10.9	1130	4	US-09-037-601-3	Sequence 3, Appl1
30	27.4	10.9	1130	5	PCR-US93-03275-1	Sequence 1, Appl1
31	27.4	10.9	1130	5	PCR-US94-13200-3	Sequence 3, Appl1
32	27.4	10.9	1623	1	US-08-121-202-3	Sequence 3, Appl1
33	27.4	10.9	4334	2	US-08-670-707A-38	Sequence 38, Appl1
34	27.4	10.9	4334	4	US-09-037-601-38	Sequence 38, Appl1
35	27.4	10.9	4700	4	US-09-150-460B-9	Sequence 9, Appl1
36	27.4	10.9	6402	2	US-08-670-707A-36	Sequence 36, Appl1
37	27.4	10.9	6402	4	US-09-037-601-36	Sequence 36, Appl1
38	27.4	10.9	262	1	US-08-222-177A-46	Sequence 46, Appl1
39	26.8	10.6	479	4	US-08-927-219-134	Sequence 134, Appl1
40	26.8	10.6	4138	1	US-08-323-474-1	Sequence 1, Appl1
41	26.8	10.6	4138	5	PCR-US93-06093-1	Sequence 1, Appl1
42	26.8	10.6	4905	1	US-07-978-895-3	Sequence 3, Appl1
43	26.8	10.6	4905	1	US-08-473-119-3	Sequence 3, Appl1
44	26.8	10.6	4905	2	US-08-475-352-3	Sequence 3, Appl1
45	26.8	10.6	4975	4	US-09-630-706-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1	US-09-193-562D-27	Score 252; DB 4; Length 3007;
Sequence 27, Application US/09193562D	Best Local Similarity 100.0%; Pred. No. 4.8e-76;	
Patent No. 6309857	Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
GENERAL INFORMATION:		
APPLICANT: Pauli, Benedicht U.		
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium		
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules		
FILE REFERENCE: 18617.0052		
CURRENT APPLICATION NUMBER: US/09/193,562D		
CURRENT FILING DATE: 1998-11-17		
PRIOR APPLICATION NUMBER: US/60/065,922		
PRIOR FILING DATE: 1997-11-17		
NUMBER OF SEQ ID NOS: 47		
SEQ ID NO 27		
LENGTH: 3007		
TYPE: DNA		
ORGANISM: Homo sapiens		
US-09-193-562D-27		
Query Match	100.0%; Score 252; DB 4; Length 3007;	
Best Local Similarity 100.0%; Pred. No. 4.8e-76;		
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY 1 CAAGAATTTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGTAACCGCTC 60		
DB 956 CAAGAATTTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGTAACCGCTC 1015		
QY 61 AATGCACTGAATCAAGCAGCCAGCTTTCTGCTGACAGACTGAGCTGGGCTCTGG 120		
DB 1016 AATGCACTGAATCAAGCAGCCAGCTTTCTGCTGACAGACTGAGCTGGGCTCTGG 1075		
QY 121 GTTGGATTTGTGATTTGACAGTGGCCCATGTAAGTGAATCATACATTAAC 180		
DB 1076 GTTGGATTTGTGATTTGACAGTGGCCCATGTAAGTGAATCATACATTAAC 1135		
QY 181 AGTGGAGTATGACAGGAGCAGCACTGCGCAAAAGATTACTGACAGCTTCAGAGGAGC 240		
DB 1136 AGTGGAGTATGACAGGAGCAGCACTGCGCAAAAGATTACTGACAGCTTCAGAGGAGC 1195		
QY 241 TCCATCTGCAGC 252		
DB 1196 TCCATCTGCAGC 1207		
RESULT 2		
US-09-193-562D-33		
Sequence 33, Application US/09193562D		
Patent No. 6309857		
GENERAL INFORMATION:		

```
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 33
LENGTH: 3022
TYPE: DNA
ORGANISM: Mus musculus
US-09-193-562D-33
```

```
Query Match          43.3%; Score 109; DB 4; Length 3022;
Best Local Similarity 65.3%; Pred. No. 2,1e-27;
Matches 160; Conservative 0; Mismatches 85; Indels 0; Gaps 0;
```

```
QY 5 GAATGTGTGTAGTCTTGACAAATCTGAGACATGGGACGTGTAAACCGCTCATC 64
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 937 GAGTGTGTCTGCTGTGATTAATCTGAGACATGGACAAAGAACCGCTTATTC 996
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 997 GAATGAATCAAGCAGCAGCACTGACTTAACCTCAATTTGGAAAAGAGCTATGTTG 1056
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 125 GGATGTGATCTTGTGACAGTCTGCCCATGTACAAAGTGAATGACATTAACAGTG 184
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1057 GATTAGTACATTTGACAGCGCTGCCACATCCAAATTTCTATATAAATAACAGTA 1116
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 185 GCACTGACAGGACACACTGCCCAAAAGATTACTGACAGCCTTCAGAGGAGCAGTCA 244
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1117 GTATGTACTACCAAAAGATACCGCAAACTCCCAAGAGCTTGTGTGTAATTCAA 1176
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 245 TCTGC 249
    |||||
Db 1177 TTTC 1181
```

```
RESULT 3
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-29
```

```
Query Match          41.8%; Score 105.4; DB 4; Length 3418;
Best Local Similarity 63.7%; Pred. No. 3.8e-26;
Matches 160; Conservative 0; Mismatches 91; Indels 0; Gaps 0;
```

```
QY 1 CAAGAATTGTGTGTAGTCTTGACAAATCTGAGACATGGGACGTGTAAACCGCTC 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 931 CACGGGTAGTCTGTGTGACTTGATAAATCTGAGACATGAGTAAGAACCGCTCTC 990
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 AATGCACTGAATCAAGCAGCAGCTTCTGCTGACAGCAGTTGAGTGGGCTCTCG 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 991 TTTCGATGATCAAGCAGCAGATGTTGATGATCAAAATTTGAAAAGGATCTTG 1050
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 GTTGGATGTGATTTGACAGTGTGCTGCCCATCTACAAAGTGAATCAATCAATCAAC 180
```

```
Db 1051 GTTGGGTGTGACATTTGACAGTCTTCTAAATCCAAAGTAACCTCATATAAATATT 1110
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 181 AGTGCAGTGCAGGACGACACTGCCCAAAAGATTACTGACAGCAGTTCAGAGGAGC 240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1111 GATGATTAACCTTACCAAAAGATCACTGCAAAACCTCCTCAAGAGCTGATGTGGACT 1170
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 241 TCAATCTGCAG 251
    ||||| |||||
Db 1171 TCAATTTGCAG 1181
```

```
RESULT 4
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; protein from bovine endothelial cells
US-09-193-562D-1
```

```
Query Match          41.2%; Score 103.8; DB 4; Length 3317;
Best Local Similarity 63.3%; Pred. No. 1.3e-25;
Matches 159; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
```

```
QY 1 CAAGAATTGTGTGTAGTCTTGACAAATCTGAGACATGGGACGTGTAAACCGCTC 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 981 CACGGGTAGTCTGTGTGACTTGATAAATCTGAGACATGTCGAGAACCGCTCTC 1040
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 AATGCACTGAATCAAGCAGCAGCTTCTGCTGACAGCAGTTGAGCTGGGCTCTCG 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1041 TTTCAAATGATTAACGACGACGAGACTTACTTGAATTCAGTTATTTGAAAAGGATCTT 1100
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 GTTGGATGTGATTTGACAGTGTGCCCATGTACAAAGTGAATGATACATTAAC 180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1101 GTTGGATGTGATTTGACAGTGTGCCCATGTACAAAGTGAATGATACATTAAC 1160
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 181 AGTGCAGTGCAGGACGACACTGCCCAAAAGATTACTGACAGCAGTTTCAGAGGAGC 240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1161 GATGATATATTTTACCAAAAGATCAACCGCAAAACCTCCTCAAGAGCTAATGTGGAAT 1220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 241 TCAATCTGCAG 251
    ||||| |||||
Db 1221 TCAATTTGTAG 1231
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```
RESULT 5
US-09-193-562D-31
; Sequence 31, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
```

NUMBER OF SEQ ID NOS: 47
SEQ ID NO 31
LENGTH: 2970
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-31

Query Match
Best Local Similarity 51.0%; Score 53.8; DB 4; Length 2970;
Pred. No. 1.3e-08;
Matches 127; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 2 AAGACATGCTGTTAGTCTTGAACAATCTGGAAGCATGCGATGTAACGCCCTCA 61
Db 1034 ACAAGTGTCTGTTAGTCTGTTGATGTCACCAAGATGCGAGAGCTGACAGACTCC 1093
QY 62 ATGACGATGACAGAGCCAGCTTTCCGCTGACAGAGTGTGGGGTCTGGG 121
Db 1094 TTCAACTACAAAGCCGACAAATTTTATTTGATGACAGATTGTAATTCATCTTCG 1153
QY 122 TTGGGATGTCACATTTGACAGTCTGCCATGTACAAAGTACATCAGATTAACA 181
Db 1154 TTGGCATTTGCCAGTTTGACAGCAAGAGATCAGAGCCGACCTACACCAATTACA 1213
QY 182 GTGGCAGTACAGGAGACACTCGCCAAAGATTACCTGACAGCTTCAGAGGAGAGT 241
Db 1214 GCAATGATGATCGAAAGTGTCTGTTCAATCTGCGCCACCATGTATACACTAAACAG 1273
QY 242 CCATCTGCA 250
Db 1274 ACATCAGCA 1282

RESULT 6

US-08-832-883-58
Sequence 58, Application US/08832883
Patent No. 5807681
GENERAL INFORMATION:
APPLICANT: Giordano, Antonio
TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS AND PROGNOSIS
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEIDEL, GONDA, LAVORGNA & MONACO, P.C.
STREET: Suite 1800 Two Penn Center Plaza
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/832,883
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 8321-13 US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 1455 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-832-883-58

Query Match
Best Local Similarity 12.2%; Score 30.8; DB 1; Length 1455;
Pred. No. 0.6;
Matches 56; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 88 TTCTGCTGACAGAGTTGAGCTGGGGTCTGGGTTGGAGTGTGACATTTGACAGTGT 147
Db 501 TTGAGGGTTTGGAGGAGACATACACCTTAAGTAAGTAGTGTGACCTGTACATTTCA 560
QY 148 GCCCATGTACAAAGTGAATCATACAGATTAACAGTGG 185
Db 561 CCCCATGTCAAAAGAGAAACGATCAGATTAATTTGTGG 598

RESULT 7

US-08-832-877-58
Sequence 58, Application US/08832877
Patent No. 5840506
GENERAL INFORMATION:
APPLICANT: Giordano, Antonio
TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS AND PROGNOSIS OF
NUMBER OF SEQUENCES: 116
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEIDEL, GONDA, LAVORGNA & MONACO, P.C.
STREET: Suite 1800 Two Penn Center Plaza
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/832,877
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 8321-13 US2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 1455 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-832-877-58
Query Match
Best Local Similarity 12.2%; Score 30.8; DB 2; Length 1455;
Pred. No. 0.6;
Matches 56; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 88 TTCTGCTGACAGAGTTGAGCTGGGGTCTGGGTTGGAGTGTGACATTTGACAGTGT 147
Db 501 TTGAGGGTTTGGAGGAGACATACACCTTAAGTAAGTAGTGTGACCTGTACATTTCA 560
QY 148 GCCCATGTACAAAGTGAATCATACAGATTAACAGTGG 185
Db 561 CCCCATGTCAAAAGAGAAACGATCAGATTAATTTGTGG 598

RESULT 8
US-09-345-468-1/c
Sequence 1, Application US/09345468
Patent No. 6245527
GENERAL INFORMATION:

APPLICANT: Busfield, S.
APPLICANT: Villevall, J.
APPLICANT: Jandrot-Perrus, M.
APPLICANT: Valchenker, W.
TITLE OF INVENTION: GLYCOPROTEIN VI AND USES THEREOF
FILE REFERENCE: 7853-147
CURRENT APPLICATION NUMBER: US/09/345,468
CURRENT FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 2047
TYPE: DNA
ORGANISM: Homo sapiens
US-09-345-468-1

Query Match 12.1%; Score 30.4; DB 4; Length 2047;
Best Local Similarity 54.5%; Pred. No. 0.97;
Matches 61; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

125 GGATGGTGCATTTGACAGTCTGCCCATGTACAAGTGAATCATACAGATTAACAGTGC 184
1299 GGATGGGCTCTCCACAGATTCCTTCATCCCAANTGAGGGTGCCTTCAGACAGAGAGGC 1240
185 GCAGTGCAGGAGACACTCGCCCAAGATTACTGCAGCAGCTTCAGAGG 236
1239 AGACAGACAGACAGACACTGCCGACGCTCCTGATGTAACACAGAGAGG 1188

RESULT 9
US-09-061-709-8

Sequence 8, Application US/09061709B
Patent No. 6297364
GENERAL INFORMATION:
APPLICANT: Chen, Yao-Tseng
APPLICANT: Gure, Ali
APPLICANT: Tsang, Solam
APPLICANT: Stockert, Elisabeth
APPLICANT: Jager, Elke
APPLICANT: Knuth, Alexander
APPLICANT: Old, Lloyd J.
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
FILE REFERENCE: LUD 5538
CURRENT APPLICATION NUMBER: US/09/061,709B
CURRENT FILING DATE: 1998-04-17
NUMBER OF SEQ ID NOS: 8
SEQ ID NO 8
LENGTH: 3283
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-061-709-8

Query Match 11.2%; Score 28.2; DB 4; Length 3283;
Best Local Similarity 59.3%; Pred. No. 6.8;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

133 ACATTGACAGTCTGCCCATGTACAAGTGAATCATACAGATTAACAGTGCAGTGC 192
381 ATATGGGACATGTGGAATGTGGAACAGTCAACACAGACACAGAAACGCCGTTGTCAA 440
193 AGGACACACTCGCCAAAGA 213
441 CGTCACATATGCACAAGAAGA 461

RESULT 10
US-09-061-709-6
Sequence 6, Application US/09061709B
Patent No. 6297364
GENERAL INFORMATION:
APPLICANT: Chen, Yao-Tseng

APPLICANT: Gure, Ali
APPLICANT: Tsang, Solam
APPLICANT: Stockert, Elisabeth
APPLICANT: Jager, Elke
APPLICANT: Knuth, Alexander
APPLICANT: Old, Lloyd J.
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
FILE REFERENCE: LUD 5538
CURRENT APPLICATION NUMBER: US/09/061,709B
CURRENT FILING DATE: 1998-04-17
NUMBER OF SEQ ID NOS: 8
SEQ ID NO 6
LENGTH: 3412
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-061-709-6

Query Match 11.2%; Score 28.2; DB 4; Length 3412;
Best Local Similarity 59.3%; Pred. No. 6.9;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

133 ACATTGACAGTCTGCCCATGTACAAGTGAATCATACAGATTAACAGTGCAGTGC 192
381 ATATGGGACATGTGGAATGTGGAACAGTCAACACAGACACAGAAACGCCGTTGTCAA 440
193 AGGACACACTCGCCAAAGA 213
441 CGTCACATATGCACAAGAAGA 461

RESULT 11
US-08-738-349-1

Sequence 1, Application US/08738349
Patent No. 5869638
GENERAL INFORMATION:
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
APPLICANT: Kawai, Shinji
APPLICANT: Tsujimura, Atsushi
APPLICANT: Amann, Egon
TITLE OF INVENTION: Bone-Related Cadherin-Like Protein and
TITLE OF INVENTION: Process for Its Production.
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegun, Henderson, Farbow, Garrett &
ADDRESS: Dunnet
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,349
FILING DATE: 25-OCT-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/364,439
FILING DATE:
APPLICATION NUMBER: US 08/112,061
FILING DATE: 26-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Barker, M. P.
REGISTRATION NUMBER: 32,013
REFERENCE/DOCKET NUMBER: 02481.1323-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000

Oy 102 AGTTGAGCTGGGGCTCGGGTGTGGAGTGTCATTTGCACAGTCTGCCCATGTACAAG 161
|| || | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 755 AGGGGATCCAGGTGCTTGGAATTGGTCTTGTGGCTGTGCACAAAGCAGAATATGTTCCA 814

Page 6

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OM nucleic - protein search, using frame_plus.n2p model

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(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-6
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Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 24425594 residues
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0-UNITS=bits-START=1-END=1-MATRIX=blomsun62-TRANS=human40.cdi
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-YGAPOP=10-YGAPEXT=0.5-DELOP=6-DELEXT=7

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	418	51.9	914	4	US-09-193-562D-28
2	248	54.5	902	4	US-09-193-562D-34
3	236	51.9	903	4	US-09-193-562D-46
4	233	51.2	795	4	US-09-193-562D-11
5	233	51.2	821	4	US-09-193-562D-12
6	233	51.2	905	4	US-09-193-562D-2
7	231	50.8	1000	4	US-09-193-562D-30
8	186	40.9	943	4	US-09-193-562D-32
9	186	40.9	943	4	US-09-188-930-305
10	69	15.1	70	4	US-09-193-562D-13
11	66.5	14.6	1333	1	US-08-447-411-76
12	66.5	14.6	1333	2	US-08-662-227-34

13	66.5	14.6	1333	4	US-09-017-947-34	Sequence 34, Appl
14	66.5	14.6	1611	2	US-08-804-227C-5	Sequence 5, Appl1
15	66.5	14.6	3729	2	US-08-804-227C-4	Sequence 4, Appl1
16	66.5	14.6	4472	2	US-08-804-227C-2	Sequence 2, Appl1
17	63	13.8	251	4	US-08-944-483-47	Sequence 47, Appl
18	63	13.8	933	4	US-08-764-870-14	Sequence 14, Appl
19	63	13.8	933	4	US-08-980-115-14	Sequence 2, Appl1
20	62.5	13.7	393	4	US-08-977-554-2	Sequence 2, Appl1
21	62.5	13.7	393	4	US-09-225-697-2	Sequence 2, Appl1
22	62.5	13.7	393	4	US-09-227-806-2	Sequence 2, Appl1
23	62	13.4	189	4	US-09-199-6378-95	Sequence 95, Appl
24	62	13.4	218	3	US-08-985-526-1	Sequence 1, Appl1
25	62	13.4	239	5	PCT-US93-01562-1	Sequence 1, Appl1
26	62	13.4	297	3	US-09-111-556A-5	Sequence 5, Appl1
27	62	13.4	297	3	US-08-360-758-5	Sequence 5, Appl1
28	62	13.4	392	6	5219753-2	Patent No. 5219753
29	62	13.4	1170	1	US-08-313-288B-20	Sequence 20, Appl
30	61.5	13.5	265	3	US-08-483-857-8	Sequence 8, Appl1
31	61.5	13.3	396	4	US-08-861-774E-90	Sequence 90, Appl
32	61.5	13.3	514	1	US-08-063-552-13	Sequence 13, Appl
33	61.5	13.3	514	5	PCT-US93-05704-13	Sequence 13, Appl
34	61.5	13.3	515	1	US-08-063-552-4	Sequence 4, Appl1
35	61.5	13.3	515	5	PCT-US93-05704-4	Sequence 4, Appl1
36	59.5	12.8	228	4	US-08-766-982-11	Sequence 11, Appl
37	59.5	12.8	228	4	US-08-944-483-55	Sequence 55, Appl
38	59.5	12.8	228	2	US-09-296-219-11	Sequence 11, Appl
39	59.5	12.8	711	1	US-08-184-012C-8	Sequence 8, Appl1
40	59.5	12.8	711	1	US-08-334-177-2	Sequence 2, Appl1
41	59.5	12.8	711	2	US-08-666-082B-1	Sequence 1, Appl1
42	59.5	12.8	711	2	US-08-766-982-2	Sequence 2, Appl1
43	59.5	12.8	711	4	US-09-296-219-2	Sequence 2, Appl1
44	59.5	12.8	711	5	PCT-US95-13830-2	Sequence 2, Appl1
45	59	12.7	441	3	US-08-985-526-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: US/09/193, 562D
; PRIOR APPLICATION NUMBER: US/60/065, 922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 3.18e-48 Length: 914
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-28 (1-914)
QY 1 CAAGAATGTGTGTAGTCCTTGACAAATCGGAAGCAATGGGCACTGGTAACGCCCTC 60
DB 304 Glntrglllevalcysleuvalleasplysereilysermetlatrtrglsanargleu 323
QY 61 AATCGACTGATCAAGCAGCCAGCTTCTCTGTCGACAGTGAAGTGGGCTCTCG 120
|||||

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Db 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343
QY 121 GTTGGATGTGACATTGTGACAGTGTCCCATGTGACAAAGTGAACCTATCAGATAAC 180
Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363
QY 181 AGTGGCACTGACAGGACACACTCGCCAAAGATTACTGACAGCAGCTTCAGAGGAGCG 240
Db 364 SerGlySerAspArgAspThrLeuAlaIysArGleuProAlaAlaIleAsnSerGlyGlyThr 383
QY 241 TCCATCTGCAGC 252
Db 384 SerIleCysSer 387

RESULT 2
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 3.65e-25 Length: 902
Score: 248.00 Matches: 51
Percent Similarity: 74.70% Conservative: 11
Best Local Similarity: 61.45% Mismatches: 21
Query Match: 54.51% Indels: 0
Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-34 (1-902)
QY 1 CAAGAATTGTGTTTGTCTTGTGACAAATCTGGAACATGCGAGCTGTAAACCCCTC 60
Db 306 ArgArgValValCysLeuValLeuAspLysSerGlySerMetAspLysGluAspArgLeu 325
QY 61 AATGCAGTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGCTTGAGCTGGGGTCTGG 120
Db 326 IleArgMetAsnGlnAlaAlaGluLeuValThrGlnIleValGluLysGluSerMet 345
QY 121 GTTGGATGTGACATTGTGACAGTGTCCCATGTGACAAAGTGAACCTATCAGATAAC 180
Db 346 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleThr 365
QY 181 AGTGGCACTGACAGGACACACTCGCCAAAGATTACTGACAGCAGCTTCAGAGGAGCG 240
Db 366 SerSerSerAspTyrGlnLysIleThrAlaAsnLeuProGlnAlaIleSerGlyGlyThr 385
QY 241 TCCATCTGC 249
Db 386 SerIleCys 388

RESULT 3
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
```

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; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.: 1.55e-23 Length: 903
Score: 236.00 Matches: 46
Percent Similarity: 74.70% Conservative: 16
Best Local Similarity: 55.42% Mismatches: 21
Query Match: 51.87% Indels: 0
Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-46 (1-903)
QY 1 CAAGAATTGTGTTTGTCTTGTGACAAATCTGGAACATGCGAGCTGTAAACCCCTC 60
Db 306 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerSerGluAspArgLeu 325
QY 61 AATGCAGTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGCTTGAGCTGGGGTCTGG 120
Db 326 PheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIleGluLysGlySerLeu 345
QY 121 GTTGGATGTGACATTGTGACAGTGTCCCATGTGACAAAGTGAACCTATCAGATAAC 180
Db 346 ValGlyMetValThrPheAspSerValAlaGluIleArgAsnAsnLeuThrLysIleThr 365
QY 181 AGTGGCACTGACAGGACACACTCGCCAAAGATTACTGACAGCAGCTTCAGAGGAGCG 240
Db 366 AspAspAsnValIlyGluAsnIleThrAlaAsnLeuProGlnAlaAsnGlyGlyThr 385
QY 241 TCCATCTGC 249
Db 386 SerIleCys 388

RESULT 4
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 3.79e-23 Length: 795
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
```

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DB: 4 Gaps: 0
US-09-049-696-6 (1-252) x US-09-193-562D-11 (1-795)
QY 1 CAAGAATTGTGTTAGCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCTC 60
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 307 GlnArYValAlcYsLeuValIleuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 61 AATGCACTGAATCAGACGACGCTTCTGCTGCAGACAGTGTGAGTGGGCTCTGG 120
  :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 327 PheGlnMetLcnsGlnAlaAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346
QY 121 GTTGGATGTGATTCATTTGACAGTGTGCTCCATGTACAAAGTGAATCATACAGATTAAC 180
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnLcnsHsLeuThrArgGlyLeThr 366
QY 181 AGTGGCAGTACAGGAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCAGAGGAGCAG 240
  :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
  367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
  241 TCCATCTGC 249
  |||||
Db 387 SerIleCys 389

RESULT 5
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
d. No.: 3.83e-23 Length: 821
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
Gaps: 0
DB: 4

US-09-049-696-6 (1-252) x US-09-193-562D-12 (1-821)
QY 1 CAAGAATTGTGTTAGCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCTC 60
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 307 GlnArYValAlcYsLeuValIleuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 61 AATGCACTGAATCAGACGACGCTTCTGCTGCAGACAGTGTGAGTGGGCTCTGG 120
  :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 327 PheGlnMetLcnsGlnAlaAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346
QY 121 GTTGGATGTGATTCATTTGACAGTGTGCTCCATGTACAAAGTGAATCATACAGATTAAC 180
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnLcnsHsLeuThrArgGlyLeThr 366
QY 181 AGTGGCAGTACAGGAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCAGAGGAGCAG 240
  :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
  367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
  241 TCCATCTGC 249
  |||||
QY 241 TCCATCTGC 249
  |||||

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Db 387 SerIleCys 389
  |||||
RESULT 6
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
d. No.: 3.95e-23 Length: 905
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
Gaps: 0
DB: 4

US-09-049-696-6 (1-252) x US-09-193-562D-2 (1-905)
QY 1 CAAGAATTGTGTTAGCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCTC 60
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 307 GlnArYValAlcYsLeuValIleuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 61 AATGCACTGAATCAGACGACGCTTCTGCTGCAGACAGTGTGAGTGGGCTCTGG 120
  :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 327 PheGlnMetLcnsGlnAlaAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346
QY 121 GTTGGATGTGATTCATTTGACAGTGTGCTCCATGTACAAAGTGAATCATACAGATTAAC 180
  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnLcnsHsLeuThrArgGlyLeThr 366
QY 181 AGTGGCAGTACAGGAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCAGAGGAGCAG 240
  :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
  367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
  241 TCCATCTGC 249
  |||||
Db 387 SerIleCys 389
  |||||

RESULT 7
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens

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US-09-193-562D-30

Alignment Scores:

Pred. No.:	7,63e-23	Length:	1000
Score:	231.00	Matches:	47
Percent Similarity:	72.29%	Conservative:	13
Best Local Similarity:	56.63%	Mismatches:	23
Query Match:	50.77%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-6 (1-252) x US-09-193-562D-30 (1-1000)

QY 1 CAAGATGTTGTTTGTCTTGCCTTGAACAATCTGGAAGCATGGCGAGCATGTAACGGCTC 60
 Db 305 GlnArgValValCysLeuValLeuAspLysSerGlySerMetAsnAlaGluAspArgLeu 324
 QY 61 AATGACGATGCAAGCAGGCGCTTTCCTGTCGACAGAGTGTGAGCTGGGCTCTCG 120
 Db 325 PheArgMetAsnGlnAlaAlaGlnLeuTyrLeuIleGlnIleIleGlnGlySerLeu 344
 QY 121 GTTGGATGTGACATTTGACAGTCTGCCATGTACAAAGTGAAGTACATACAGTAAAC 180
 Db 345 ValGlyLeuValThrPheAspSerPheAlaLysIleGlnSerLysLeuIleLysIle 364
 QY 181 AGTGCAGTGCAGGACAGACACTCGCAAAAGATTACCTGACGAGCAGCTTCAGAGGAGC 240
 Db 365 AspAspAsnThrTyrGlnLysIleThrAlaAsnLeuProGlnGluAlaAspGlyThr 384
 QY 241 TCCATCTGC 249
 Db 385 SerIleCys 387

RESULT 8

US-09-193-562D-32

; Sequence 32, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedict U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT APPLICATION NUMBER: US/09/193,562D
 ; CURRENT FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; PRIOR FILING DATE: 1997-11-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 32
 ; LENGTH: 943
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-193-562D-32

Alignment Scores:

Pred. No.:	9,52e-17	Length:	943
Score:	186.00	Matches:	39
Percent Similarity:	64.71%	Conservative:	16
Best Local Similarity:	45.88%	Mismatches:	28
Query Match:	40.88%	Indels:	2
DB:	4	Gaps:	1

US-09-049-696-6 (1-252) x US-09-193-562D-32 (1-943)

QY 4 AGAATGTGTGTAGTCTTGCCTTGAACAATCTGGAAGCATGGCGAGCATGTAACGGCTCANT 63
 Db 310 LysValValCysLeuValLeuAspValSerLysMetAlaGlnAlaAspArgLeu 329
 QY 64 CGACTGAATCAAGCAGGCGCTTTCCTGTCGACAGAGTGTGAGCTGGGCTCTCGGTT 123
 Db 330 GlnLeuGlnAlaAlaGlnPheTyrLeuMetGlnIleValGlnIleLysThrPheVal 349
 QY 124 GGGATGTGACATTTGACAGTCTGCCATGTACAAAGTGAAGTACATACAGTAAACAGT 183
 Db 350 GlyLeuLysPheAspSerLysGlyGlnIleArgAlaGlnLeuHisGlnIleAsnSer 369

QY 184 GGCAGTACAGGACAGCACTCGCAAAAGATTACCTGACAGACTTCAGAGGAGC--- 240

Db 370 AsnAspArgGlySerLeuValSerTyrLeuProThrThrValSerAlaLysThrAsp 389

QY 241 ---TCCATCTGCAGC 252

Db 390 IleSerIleCysSer 394

RESULT 9

US-09-188-930-305

; Sequence 305, Application US/09188930A
 ; Patent No. 6150502
 ; GENERAL INFORMATION:
 ; APPLICANT: Watson, James D.
 ; APPLICANT: Strachan, Lorna
 ; APPLICANT: Sleeman, Matthew
 ; APPLICANT: Onrust, Rene
 ; APPLICANT: Murison, James Greg
 ; TITLE OF INVENTION: Compositions Isolated From Skin Cells
 ; FILE REFERENCE: 11000.1011c1
 ; CURRENT APPLICATION NUMBER: US/09/188,930A
 ; CURRENT FILING DATE: 1998-11-09
 ; NUMBER OF SEQ ID NOS: 348
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 305
 ; LENGTH: 649
 ; TYPE: PRT
 ; ORGANISM: Mouse
 ; US-09-188-930-305

Alignment Scores:

Pred. No.:	0.459	Length:	649
Score:	70.00	Matches:	22
Percent Similarity:	41.10%	Conservative:	8
Best Local Similarity:	30.14%	Mismatches:	29
Query Match:	15.09%	Indels:	14
DB:	4	Gaps:	3

US-09-049-696-6 (1-252) x US-09-188-930-305 (1-649)

QY 223 CCTGAAGTGTGTGAGGAATCTTTGGCAGTGTCTCCGTGTCACCTGCACCTGTTATC 174
 Db 337 ProGlnLysValArgGly-----MetAlaIleLysAspLeuSerAlaGlnLeuPheAsp 354
 QY 173 TGTATGAGTTCACCTTTGTACATGGCAGCACTGTCAAAATGTACACCAACCCAGAGAC 114
 Db 355 CysLysAspSer-----GlyIleValSerThrIleGlnIleThrAlaIle 370
 QY 113 CCCAGCTCAACTGTCTGCAGCAGGAAAGCTGGCCTGTGATTCAGTCAGTTGAGCGG 54
 Db 371 ProAsnThrAlaTyrProAlaGlnGlnIleGlnIleThrProAla----- 383
 QY 53 TTACCAGTGGCCAGCTTCAGATTGTCAAGACATAA 15
 Db 384 ---ProValThrLysGlnProAspIleLysAsnProLys 395
 RESULT 10
 US-09-193-562D-13
 ; Sequence 13, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedict U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT APPLICATION NUMBER: US/09/193,562D
 ; CURRENT FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; PRIOR FILING DATE: 1997-11-17
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 13


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QY 109 CTGGGGCTCTGGGTTGGGATGGTGCACATTGTGACAGTCTGCGCCATGTCACAAAGTCACTC 168
Db 254 PROGLYALATRIPIEGLYLEUVALALVALASPLYSALGLUTRYVALLEUASNASPLYS 273
QY 169 ATACAGATTAACAGTGGCAGTGACAGGACGACACACTCGCCAAA 210
Db 274 TYRLYSILSERGLNALALYSTLETTRPSPHRIILEGLULYS 287

RESULT 13
US-09-017-947-34
Sequence 34, Application US/09017947
Patent No. 6303754
GENERAL INFORMATION:
APPLICANT: VOGEL, CARL-WILHELM
APPLICANT: BREDEHORST, REINHORST
APPLICANT: KOCK, MICHAEL
APPLICANT: FRITZINGER, DAVID
TITLE OF INVENTION: RECOMBINANT PROCVF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESS: P. C. JEFFERSON DAVIS HIGHWAY
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/017,947
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/662,227
FILING DATE: 14-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 1126-0107-0X
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 1333 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-017-947-34

Alignment Scores:
Pred. No.: 1.73 Length: 1333
Score: 66.50 Matches: 15
Percent Similarity: 53.70% Conservatve: 14
Best Local Similarity: 27.78% Mismatches: 24
Query Match: 14.62% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-6 (1-252) x US-09-017-947-34 (1-1333)
QY 52 AACGCCCATTCGACACGTCATCAAGCAGGCCAGCTTTCTGCTGCACAGACGTT---GAG 108
Db 234 SerATGspASnaATgTlEGlmetProGlyALALALAmelTylsILeYsLeuGIuGlyAsp 253
QY 109 CTGGGGCTCTGGGTTGGGATGGTGCACATTGTGACAGTCTGCGCCATGTCACAAAGTCAACTC 168
Db 254 PROGLYALATRIPIEGLYLEUVALALVALASPLYSALGLUTRYVALLEUASNASPLYS 273

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OY      169  ATACAGATTAACAGCTGGCGAGTGCAGCGGACACACTCGGCAAA 210
          ::::::::::::::::::::  |||
Db      274  TyrLysIleSerGlnAlaLysIleIleTrrPaspHrIleGluLys 287

RESULT 14
US-08-804-227C-5
/ Sequence 5, Application US/08804227C
/ Patent No. 5876991
/ GENERAL INFORMATION:
/ APPLICANT: Dehoff, Bradley S.
/ APPLICANT: Kuhstoss, Stuart A.
/ APPLICANT: Rosteck, Paul R., Jr.
/ APPLICANT: Sutton, Kimberly L.
/ TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
/ NUMBER OF SEQUENCES: 15
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: THOMAS G. PLANT 1501
/ STREET: LILLY CORPORATE CENTER
/ CITY: INDIANAPOLIS
/ STATE: IN
/ COUNTRY: USA
/ ZIP: 46285
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: MS-DOS
/ SOFTWARE: ASCII(DOS) Text only
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/804, 227C
/ FILING DATE: February 21, 1997
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Plant, Thomas, G.
/ REGISTRATION NUMBER: 35,784
/ REFERENCE/DOCKET NUMBER: X-8231
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 317-276-2459
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1611 amino acids
/ TYPE: amino acid
/ TOPOLOGY: unknown
/ MOLECULE TYPE: protein
US-08-804-227C-5

Alignment Scores:
Pred. No.: 1.84 Length: 1611
Score: 66.50 Matches: 20
Percent Similarity: 46.03% Conservative: 9
Best Local Similarity: 31.75% Mismatches: 23
Query Match: 14.62% Indels: 11
DB: 2 Gaps: 2

US-09-049-696-6 (1-252) x US-08-804-227C-5 (1-1611)

OY      44  CGAGCTGGTAACCGGCTCATGATGATCAAGCAGCGCACTTTTCTGTCGACAG 103
          |||||:::||||:::  :::::
Db      884  ArgLeuLeuIrrSerThrAlaGlu-----AlaTrrAlaIsgIalAlaThr 898
          |||||:::||||:::  :::::

OY      104  TTGAGACTGGGCTCTCGTGGTGGATGGTGCATTTGACAGAGTGGCCATGTACAAAGTG 163
          ||:::||||  ||  |||  |||||  |||||  |||
Db      899  LeuHrrTrpAspProAlaLeuProProGlyIleuHrrThrIleuProHrrTyrProPhe 918
          |||||:::||||:::  :::::

OY      164  AACTCATACAGA-----TAAACAGTGCAGTGCAGCAGACACTCG 205
          |||  :::  |||  |||  |||  |||
Db      919  AsnIshIshIstYrTyrPleuAspThrThrProHrrThrProAlaHrrThrInGlnSer 938
          |||  |||  |||  |||  |||  |||

OY      206  CCAAAAGAT 214
          |||  |||
Db      939  ProThrAsp 941

RESULT 15

```

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US-08-804-227C-4
; Sequence 4, Application US/08804227C
; Patent No. 5876991
; GENERAL INFORMATION:
; APPLICANT: Dehoff, Bradley S.
; APPLICANT: Kuhstoss, Stuart A.
; APPLICANT: Rostock, Paul R., Jr.
; APPLICANT: Sutton, Kimberly L.
; TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THOMAS G. PLANT 1501
; STREET: LILLY CORPORATE CENTER
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: USA
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: ASCII(DOS) Text only
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/804,227C
; FILING DATE: February 21, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Plant, Thomas G.
; REGISTRATION NUMBER: 35,784
; REFERENCE/DOCKET NUMBER: X-8231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 317-276-2459
; INFORMATION FOR SRO ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3729 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-804-227C-4

Alignment Scores:
Pred. No.: 2.42 Length: 3729
Score: 66.50 Matches: 20
Percent Similarity: 46.03% Conservative: 9
Best Local Similarity: 31.75% Mismatches: 23
Query Match: 14.62% Indels: 11
DB: 2 Gaps: 2

; -09-049-696-6 (1-252) x US-08-804-227C-4 (1-3729)
QY 44 CGACTGTAACCGGCTCAATGACTGATCAAGACGCGCAGCTTTCTGCTGCAGACAG 103
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 104 TTGAGCTGGGGCTCTGGGTTGGGATGGATTTGACATTTGACAGTGGCCCATGTACAAAGTG 163
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 905 leuhttrtpasprroalaleuProProGlyHisleuhttrhleuProFthrTyrProPhe 924
QY 164 AACTCATACAGA-----TAAACAGTGGCAGTGACAGGAGCAGCACTCG 205
Db |||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
QY 206 CCAAGAT 214
Db ||| |||
QY 945 Prothrasp 947

```

Search completed: October 17, 2002, 17:59:21
 Job time : 10.0782 secs

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TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 1
;; LENGTH: 3317
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
;; OTHER INFORMATION: protein from Bovine endothelial cells
US-09-193-562D-1

Query Match 46.9%; Score 103.2; DB 4; Length 3317;
Best Local Similarity 63.5%; Pred. No. 6.7e-24;
Matches 157; Conservative 0; Mismatches 63; Indels 6; Gaps 1;

OY 1 CTATAGTTGAATTCGTGTCAGACAAACACACAAAGAGCTCCAAACAGCAAAATC 60
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
799 CTGTGACGAGATTTTGTACAGAAAAACACAAATACAGAAAGCTCCAAACCTACAAACA 858
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
61 AAAAATGCAATCTCCGAGACACATGGGAATGATCCGTGATTCTGAGGACTTTAAGAAA 120
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 859 AAATGTGCAATGGCAAAAGACATGGGATGTAATCATGATCTGTGACTTTCAGAAATA 918
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 CCATCTCATATGACA-----ACACAGCCACCAATCCCACTTCCTCATTTGCGAGATG 174
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 919 CATCTCCATGACAGAAATGAAATCCACCGACTCATCTCACTTTTCACTTTCCTCAAGTCA 978
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 175 GACAAAGAAATGTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 220
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 979 AACACGGGTAGTGTGTTGTAATGTAATATCGAAGCATGTC 1024
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 3
US-09-193-562D-29
;; Sequence 29, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 29
;; LENGTH: 3418
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 45.2%; Score 99.4; DB 4; Length 3418;
Best Local Similarity 68.8%; Pred. No. 1.1e-22;
Matches 152; Conservative 0; Mismatches 66; Indels 3; Gaps 1;

OY 1 CTATAGTTGAATTCGTGTCAGACAAACACACAAAGAGCTCCAAACAGCAAAATC 60
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 752 CTGTGACGAGATTTTGTACTGAAAAACACAAATAAAGAGCTCCAAACCTATTTAACA 811
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 AAAAATGCAATCTCCGAGACACATGGGAATGATCCGTGATTCTGAGGACTTTAAGAAA 120
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 812 AAATGTGCAATCGAAGACACATGGGATGTAATCATGATCTGGAAGATTTTCAGCAATT 871
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 CCATCTCATATGAC--AAACAGCCACCAATCCCACTTCCTCATTTGCTGAGATTTGAC 177
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 872 TATCTCCATGACAGAAATTAATTTACTGCTGCTACATTTTCATTTGCTCAAGTCAAC 931
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 178 AAAGAAATGTGTGTTAGTCTTGACAAATCTGGAAGCATG 218
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 932 AGCGTAGTCTGTTGTGTAATTAATCTGGAAGCATG 972

RESULT 4
US-09-193-562D-33
;; Sequence 33, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 33
;; LENGTH: 3022
;; TYPE: DNA
;; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match 42.8%; Score 94.2; DB 4; Length 3022;
Best Local Similarity 67.1%; Pred. No. 5.1e-21;
Matches 151; Conservative 0; Mismatches 68; Indels 6; Gaps 1;

OY 1 CTATAGTTGAATTCGTGTCAGACAAACACACAAAGAGCTCCAAACAGCAAAATC 60
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 751 CTGTGTTGATTTTGTACAGAAAAATACCAATGCAAGAGCCCAACCTACAAACA 810
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 AAAAATGCAATCTCCGAGACACATGGGAATGATCCGTGATTCTGAGGACTTTAAGAAA 120
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 811 AAATGTGCAATCGCAAGACACATGGGATGTAATCAAGAGCTGTGACTTTCAGAAATG 870
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 CCATCTCATATG-----ACAACACAGCCACCAATCCCACTTCCTCATTTGCTGAGATG 174
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 871 CCCCTCCATGAGAGACAAAGCCCTCCTCCACCTCACTTATCTGCTCAAGTCA 930
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 175 GACAAAGAAATGTGTGTTAGTTCCTTGACAAATCTGGAAGCATGG 219
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 931 GAAGCGAGTGTGTGCTGCTGATGTAATCTGGAAGCATGG 975
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 5
US-09-193-562D-31
;; Sequence 31, Application US/09193562D
;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 31
;; LENGTH: 2970
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-193-562D-31

Query Match 37.5%; Score 82.4; DB 4; Length 2970;
Best Local Similarity 63.7%; Pred. No. 3.1e-17;
Matches 144; Conservative 0; Mismatches 76; Indels 6; Gaps 1;

OY 1 CTATAGTTGAATTCGTGTCAGACAAACACACAAAGAGCTCCAAACAGCAAAATC 60
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 851 CTGTGTTGATTTTGTATGCAAGTACCCCAACCAAGAGCACAAACCTACAGAAC 910
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 AAAAATGCAATCTCCGAGACACATGGGAATGATCCGTGATTCTGAGGACTTTAAGAAA 120
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 911 AGATGTGACGCCCTCAGAAAGCATGGATGTATACACAGCTGCTGACTTCACACACA 970
QY 121 CCACCTCTAT-----GACACACAGCCACCAATCCCACTCTCATTCGTCAATG 174
Db 971 GCTTCCCATGAAAGGAGGACTGAGCTTCCTCCACATTCCTGCTTGTACAGGCTG 1030
QY 175 GACAAAGAAATTTGTTTGTATGCTTGTACAAATCTGGAAGCAGTGGC 220
Db 1031 GTGACAAAGTGTCTGTATTAGTGTGTGATGTGTCCAGCAAGATGCG 1076

RESULT 6

US-09-068-140A-3/c
; Sequence 3, Application US/09068140A
; Patent No. 6281409

GENERAL INFORMATION:

APPLICANT: Mary Rose Woodhead, Mark Andrew Taylor
APPLICANT: and Rex Michael Brennan
TITLE OF INVENTION: Blackcurrant Promoters and Genes
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/068,140A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP96/04807
FILING DATE: No. 6281409ember 4, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Dineer, Data L.
REGISTRATION NUMBER: 33,680
REFERENCE/DOCKET NUMBER: C70237
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5017
TELEFAX: 610-270-5090

TELEX:

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:

LENGTH: 519 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Ribes nigrum
STRAIN: Ben Alder
US-09-068-140A-3

Query Match 13.5%; Score 29.8; DB 4; Length 519;
Best Local Similarity 50.3%; Pred. No. 1.2;
Matches 73; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 2 TATAGTGAATTCCTGACAGCAACAAACACACAAAGAGTCCAAAGCAAGCAATGCA 61
Db 518 TTTTCTTTTCTTTTACATTAACATTAAGTTCATTTAATTAATTAACACAGAAACACA 459
QY 62 AAATGCAATCTCCGAGACATGGAAGTATCGGTGATTCGTGAGACTTTAAGAAAC 121
Db 458 AACATGACCATTAACAGGACACGCGGAAACAAACGAAACAACTGACACTTAGGTGCA 399

QY 122 CACTCTATGACAAACAGCCACCA 146
Db 398 TATTCTTTCACCCACAAAGACACA 374

RESULT 7

US-08-252-995D-3/c
; Sequence 3, Application US/08252995D
; Patent No. 5650501

GENERAL INFORMATION:

APPLICANT: Dennis, James W
APPLICANT: Hefner, Mike
APPLICANT: Fode, Carol
TITLE OF INVENTION: NOVEL SERINE/THREONINE KINASE
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BERESKIN & PARR
STREET: 40 King Street West
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5H 3Y2

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/252,995D
FILING DATE: 02-JUN-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Kurodyk, Linda W
REGISTRATION NUMBER: 34,971
REFERENCE/DOCKET NUMBER: 3153-96
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 364-7311
TELEFAX: (416) 361-1398

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 3447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
ORIGINAL SOURCE:
ORGANISM: Mus musculus
DEVELOPMENTAL STAGE: Lymphoid cDNA library
IMMEDIATE SOURCE:
LIBRARY: Murine lymphoid
CLONE: WGA-resistant chop clones
FEATURE:
NAME/KEY: 5'UTR
LOCATION: 1..205
FEATURE:
NAME/KEY: CDS
LOCATION: 206..2960
FEATURE:
NAME/KEY: 3'UTR
LOCATION: 2981..3447
US-08-252-995D-3

Query Match 13.5%; Score 29.8; DB 1; Length 3447;
Best Local Similarity 52.9%; Pred. No. 2.6;
Matches 64; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 16 GTACAGACAAACCAACCAAGAAAGTCCAAAGCAAGCAATGCAATGCTCC 75
Db 3271 GTAAAGAAATATACAAACCAAGCAAGCCATACACACTTACTTCAATCAACATAGCA 3212
QY 76 GAAGCAGATGGGAAGTATCGGTGATTCGTGAGGACTTTAAGAAACCACTCTATGACAA 135

Dd	3211	GCACAACTTGAAGATTACATGCTTGGAGCAAAATTGAGTGTCTTACCCCTATGACCA	3152
QY	136 C 136		
Dd	3151 C 3151		

RESULT 8

US-08-834-108-3/c
 : Sequence 3, Application US/08834108
 : Patent No. 5976893
 :
 : GENERAL INFORMATION:
 : APPLICANT: Dennis, James W
 : APPLICANT: Hefneran, Mike
 : APPLICANT: Fode, Carol
 : TITLE OF INVENTION: NOVEL SERINE/THEONINE KINASES
 :
 : NUMBER OF SEQUENCES: 14
 :
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: BERSKIN & PARR
 : STREET: 40 King Street West
 : CITY: Toronto
 : STATE: Ontario
 : COUNTRY: Canada

?
 ? ZIP: MSH 312
 ?
 ? COMPUTER READABLE FORM:
 ?
 ? MEDIUM TYPE: Floppy disk
 ?
 ? COMPUTER: IBM PC compatible
 ?
 ? OPERATING SYSTEM: PC-DOS/MS-DOS
 ?
 ? SOFTWARE: PatentIn Release #1.0, Version #1.30
 ?
 ? CURRENT APPLICATION DATA:
 ?
 ? APPLICATION NUMBER: US/08/834,108
 ?
 ? FILING DATE:
 ?

ORGANISM: Mus musculus
DEVELOPMENTAL STAGE: Lymphoid cDNA library
IMMEDIATE SOURCE:
LIBRARY: Murine Lymphoid
CLONE: WGA-resistant chop clones
FEATURE:
NAME/KEY: 5'UTR
LOCATION: 1..205
FEATURE:
NAME/KEY: CDS
LOCATION: 206..2980
FEATURE:
NAME/KEY: 3'UTR
LOCATION: 2981..3447
US-08-834-108-3

Db 3211 GCACAACTTGAAGCATTCATCATCTTGAGACAAATTCAGATGTCCTAGCCCTATAGACCA 3152

QY 136 C 136

Db 3151 C 3151

RESULT 9

```

US-09-247-373B-33
Sequence 33, Application US/09247373B
Patient No. 6168954
GENERAL INFORMATION:
APPLICANT: MCCONIGLE, BRIAN
APPLICANT: O'KEEFE, DANIEL
TITLE OF INVENTION: SOYBEAN GLUTATHIONE-S-TRANSFERASE ENZYMES
FILE REFERENCE: .CT-1108-A
CURRENT APPLICATION NUMBER: US/09/247,373B
CURRENT FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 08/924,747
PRIOR FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 56
SOFTWARE: Microsoft Office 97
SEQ ID NO 33
LENGTH: 1117
TYPE: DNA
ORGANISM: SOYBEAN
FEATURE:
NAME/KEY: unsure
LOCATION: (1101)
OTHER INFORMATION: M=A OR C
NAME/KEY: unsure
LOCATION: (1104)
OTHER INFORMATION: M=A OR C
NAME/KEY: unsure
LOCATION: (1116)
OTHER INFORMATION: N=G OR A OR T OR C
US-09-247-373B-33

```

	Query Match	13.5%	Score 29.6;	DB 4,	length 117;
	Best Local Similarity	64.7%;	Pred. No. 2;		
	Matches	44;	Conservative	0;	Mismatches 24; Indels 0; Gaps 0.
QY	3 ATAGTTGATTCGTGCAGACAAAACCACAAGAAGCTCCAAACAGCAAAATCAA	62			
	-				
Db	982 AATAATCATCTTATTAAA	1041			
QY	63 AAATGCCAA 70				
Db	1042 AAAAAAAAA 1049				

RESULT 10
 US-08-335-865J-8
 : Sequence 8, Application US/08335865J
 : Patent No. 6107472
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Stacker, Steven A.; Hovens, Christopher M.,
 : APPLICANT: Wilks, Andrew F.
 : TITLE OF INVENTION: RECEPTOR-TYPE TYROSINE KINASE-LIKE MOLECULES
 : NUMBER OF SEQUENCES: 21
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Fulbright & Jaworski L.L.P.
 : STREET: 666 Fifth Ave
 :
 : CITY: New York
 : STATE: New York
 : COUNTRY: USA
 : ZIP: 10103
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: diskette, 3.5 inch, 720 KB storage
 : COMPUTER: IBM PS/2
 : OPERATING SYSTEM: PC-DOS
 : SOFTWARE: ASCII/Wordperfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/335,865J
FILING DATE: 19-January-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/A093/00210
FILING DATE: 10-May-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PL2358
FILING DATE: 11-May-1992
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6107472man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD-5277
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3100
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 2065
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-335-865J-8

Query Match 13.5%; Score 29.6; DB 3; Length 2065;
Best Local Similarity 46.6%; Pred. No. 2.5; 109; Indels 0; Gaps 0;
Matches 95; Conservative 0; Mismatches 0;

QY 9 GAATTCGTACAGAAACCAACACAGAGCTCCAAACAGCAAAATCAAAATGCG 68
DB 1102 GATTGTAGATGAAAGAACCAATTAAGAGAGCAATTTGTAAGACAGTTAA 1161
QY 69 AATTCGGAAGACATGGAGATGATCCGATTTCTGAGACTTAAAGAAACCACTCTC 128
DB 1162 AGACCAAGCATCTGAAATTCAGGATGATGCTCAGCAGAGATTCGAGG 1221
QY 129 ATGACACAGAGCCACCAATCCACCTTCATTCGTCGAGATTGGACAAGATTTGTG 188
DB 1222 TCTGACACAGAAACCTCTCTTCTATTACTGATGTGTGATAGAGAGAAAGCC 1281
QY 189 TGTTCAGCTCTGACAAATCTGA 212
DB 1282 CATGCTGTATTCGATATCATGATGTGTGATAGAGAGAAAGCC 1305

RESULT 11
US-08-943-731-209/C
Sequence 209, Application US/08943731
Patent No. 6265157
GENERAL INFORMATION:
APPLICANT: PROCKOP, DARWIN J.
APPLICANT: SPOTILA, LORETTA D.
APPLICANT: DELTAS, CONSTANTINOS D.
APPLICANT: SEREDA, LARISA
APPLICANT: LARSON, ANDREA W.
APPLICANT: PACK, MICHAEL
APPLICANT: COLIGE, ALAIN
APPLICANT: EARLY, JAMES
APPLICANT: KORRKO, JARMO
APPLICANT: ALA-KORRKO, LEENA, et al.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
TITLE OF INVENTION: ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES
NUMBER OF SEQUENCES: 666
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
CITY: PHILADELPHIA
STATE: PA
COUNTRY: USA
ZIP: 19103-7086
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,731
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,322
FILING DATE: 14-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/803,628
FILING DATE: 03-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: DOTLE LEARY Ph.D., KATHRYN
REGISTRATION NUMBER: 36,317
REFERENCE/DOCKET NUMBER: 9598-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-965-1284
TELEFAX: 215-567-2991
TELEX: 831-494
INFORMATION FOR SEQ ID NO: 209:
SEQUENCE CHARACTERISTICS:
LENGTH: 1140 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-943-731-209

Query Match 13.4%; Score 29.4; DB 4; Length 1140;
Best Local Similarity 76.6%; Pred. No. 2.3; 11; Indels 0; Gaps 0;
Matches 36; Conservative 0; Mismatches 0;

QY 24 CAAACCCACCAACCAAGAGCTCCAAACAGCAAAATCAAAATGCA 70
DB 359 CAAACCAAAACACAGAAACCCCAAAACCAAAACCAAAACCA 313

RESULT 12
US-09-056-075-1/C
Sequence 1, Application US/09056075
Patent No. 5955368
GENERAL INFORMATION:
APPLICANT: Johnson, Eric A.
APPLICANT: Bradshaw, Marile
APPLICANT: Rood, Julian
TITLE OF INVENTION: Expression System for Clostridium
TITLE OF INVENTION: Species
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pluckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,075
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296, 95238
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000


```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/724,354D
; FILING DATE: 01-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/016,482
; FILING DATE: 29-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Hallie, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/090001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-678-5070
; TELEFAX: 619-678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13146 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; US-08-724-354D-3

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Query Match      12.88; Score 28.2; DB 2; Length 13146;
Best Local Similarity 59.38; Pred. No. 14;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY      9 GAATTCGTACAGACAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAATGCG 68
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 12782 GAAATCCAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG 12723
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      69 AATCTCGAGACACATGGGAA 89
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 12722 AAAAAAGAAAAAAGAAAAAGAA 12702

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Search completed: October 17, 2002, 11:13:13
 Job time : 18.9272 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 : Search time 9.11628 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-8

Sequence: 1 AACCAAGTGTGTCATCATC.....GGCAGAGTGTGTCAGACAG 253

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Archived: 38353 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_NA:*
1: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
4: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
5: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
6: /cgn2_6/prodata/2/ina/5B_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	253	100.0	3007	4	US-09-193-562D-27
2	93.4	36.9	2970	4	US-09-193-562D-31
3	87	34.4	3317	4	US-09-193-562D-1
4	78.8	31.1	3022	4	US-09-193-562D-33
5	57.4	22.7	3418	4	US-09-193-562D-29
6	29	11.5	933	6	5340934-12
7	29	11.3	4821	3	US-08-913-374-1
8	28.6	11.3	9723	1	US-08-083-590A-21
9	28.6	11.3	9723	3	US-08-532-384-21
10	28	11.1	371	1	US-08-594-031-80
11	27.8	11.0	6463	2	US-08-962-284-3
12	27.6	10.9	3872	2	US-08-331-081B-4
13	27	10.7	445	1	US-08-486-013-65
14	27	10.7	445	1	US-08-486-013-65
15	27	10.7	445	1	US-08-486-013-65
16	27	10.7	445	2	US-08-482-279-65
17	27	10.7	445	2	US-08-482-279-65
18	27	10.7	445	2	US-08-482-279-65
19	27	10.7	445	3	US-09-015-968-65
20	27	10.7	445	3	US-09-015-968-65
21	27	10.7	445	4	US-09-397-386-65
22	27	10.7	445	4	US-09-397-386-65
23	27	10.7	2457	1	US-08-486-013-68
24	27	10.7	2457	2	US-08-482-279-68
25	27	10.7	2457	2	US-08-482-279-68
26	27	10.7	2457	3	US-09-015-968-68
27	27	10.7	2457	4	US-09-397-386-68

28	27	10.7	2551	1	US-08-486-013-70	Sequence 70, Appl
29	27	10.7	2551	2	US-08-482-279-70	Sequence 70, Appl
30	27	10.7	2551	2	US-08-342-268-70	Sequence 70, Appl
31	27	10.7	2551	3	US-09-015-968-70	Sequence 70, Appl
32	27	10.7	2551	4	US-09-397-386-70	Sequence 70, Appl
33	26.8	10.6	1689	4	US-09-247-155-61	Sequence 61, Appl
34	26.8	10.6	8133	1	US-08-480-604A-5	Sequence 5, Appl
35	26.8	10.6	8133	2	US-08-405-496A-5	Sequence 5, Appl
36	26.8	10.6	8133	4	US-08-915-136-5	Sequence 5, Appl
37	26.6	10.5	578	4	US-08-991-789A-35	Sequence 35, Appl
38	26.6	10.5	578	4	US-09-062-451-35	Sequence 35, Appl
39	26.6	10.5	632	4	US-09-328-111-53	Sequence 53, Appl
40	26.6	10.5	2305	3	US-08-526-136-1	Sequence 1, Appl
41	26.6	10.4	2311	3	US-08-526-136-3	Sequence 3, Appl
42	26.4	10.4	2706	2	US-08-454-549-1	Sequence 1, Appl
43	26.4	10.4	2706	3	US-08-454-552-1	Sequence 1, Appl
44	26.4	10.4	2706	3	US-08-676-351-1	Sequence 1, Appl
45	26.2	10.4	455	3	US-09-026-343-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1	US-09-193-562D-27	Application US/09193562D
Sequence 27, Applicant	US-09-193-562D-27	Patent No. 6309857
GENERAL INFORMATION:		
APPLICANT:	Pauli, Benedicht U.	
TITLE OF INVENTION:	Nucleotide Sequences Encoding Mammalian Calcium	
TITLE OF INVENTION:	Activated Chloride Channel-Adhesion Molecules	
FILE REFERENCE:	18617.0052	
CURRENT APPLICATION NUMBER:	US/09/193,562D	
CURRENT FILING DATE:	1998-11-17	
PRIOR APPLICATION NUMBER:	US/60/065,922	
PRIOR FILING DATE:	1997-11-17	
NUMBER OF SEQ ID NOS:	47	
SEQ ID NO 27		
LENGTH:	3007	
TYPE:	DNA	
ORGANISM:	Homo sapiens	
US-09-193-562D-27		
Query Match	100.0%	Score 253; DB 4; Length 3007;
Best Local Similarity	100.0%	Pred. No. 2.8e-79;
Matches 253; Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
QY	1	AACAAAGTGTGTCATCATCAGACAGTCCCTTGGGCCCCCTGCGAGCTCAAGAACTAG 60
DB	1323	AACAAAGTGTGTCATCATCAGACAGTCCCTTGGGCCCCCTGCGAGCTCAAGAACTAG 1382
QY	61	AGGAGCTGTCCAAAGGACAGAGGTTTACAGACATATGCTTACATCAAGTTCAAGCA 120
DB	1383	AGGAGCTGTCCAAAGGACAGAGGTTTACAGACATATGCTTACATCAAGTTCAAGCA 1442
QY	121	ATGGCCCATTTGATGCTTTGGGGCCCTTTCATCAGAGAAATGAGCTGTCTCAGGCT 180
DB	1443	ATGGCCCATTTGATGCTTTGGGGCCCTTTCATCAGAGAAATGAGCTGTCTCAGGCT 1502
QY	181	CCATTCAGCTTGAAGATTAAGGATTAACCTCCAGAACAGCCAGTGAATGAGGACAG 240
DB	1503	CCATTCAGCTTGAAGATTAAGGATTAACCTCCAGAACAGCCAGTGAATGAGGACAG 1562
QY	241	TGATCGTGACAG 253
DB	1563	TGATCGTGACAG 1575
RESULT 2	US-09-193-562D-31	Application US/09193562D
Sequence 31, Applicant	US-09-193-562D-31	Patent No. 6309857
GENERAL INFORMATION:		

NUMBER OF SEQ ID NOS: 47
SEQ ID NO 29
LENGTH: 3418
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 22.7%; Score 57.4; DB 4; Length 3418;
Best Local Similarity 63.3%; Pred. No. 2, 3e-10;
Matches 88; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 115 AGAACAATGGCCCTTATGATGCTTTGGGCCCCCTTCATCAGAAATGAGCTGTCTCTC 174
DB 1469 ACATTAATGGCCCTTATGATGCTTTGAGCAGAAATTCATCTAGAAGTGGCAGATCTCTC 1528
QY 175 AGCCCTCCATCCAGCTTGAGAGTAAAGGATTAAACCTCCAGAAACCCAGTGGATGATG 234
DB 1529 AGCAGGCTCTTCACTTGAAGTAAACCTTGAATATCCAGCAGAAATGATTAATG 1588
DB 235 GCACAGTATGCTGGACAG 253
DB 1589 GTACAGTCCCTGTGATAG 1607

RESULT 6
5340934-12
Patent No. 5340934

APPLICANT: TERMINE, JOHN D.; YOUNG, MARIAN F.; FISHER, LARRY W.
ROBEY, PAMELA G.
TITLE OF INVENTION: CDNA SEQUENCES OF HUMAN BONE MATRIX PROTEINS
NUMBER OF SEQUENCES: 13
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/432,044
FILING DATE: 03-NOV-1989
SEQ ID NO: 12
LENGTH: 933

Query Match 11.5%; Score 29; DB 6; Length 933;
Best Local Similarity 45.7%; Pred. No. 1.2;
Matches 101; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 28 TCGCTTTGGGCGCCCTTCAGCTCAGAACTAGAGAGCTGTCCAAATGACAGAGGTT 87
DB 53 TGGCGGGAGGGCCCTTGGCAGACCCCTCAGCAAGAACCCCTCGATGAGACAGAGTGG 112
DB 88 TACAGACATATGCTTCAGATCAAGTTCAGAAACAATGGCCCTTATGATGCTTTGGGCCC 147
QY 113 TCGAAGAACTGTGGCAGAGGTGACTGATCTGTGGAGATTAATCTGTCCAGGTGG 172
QY 148 TTTATGAGGAATGAGCTGTCTCAGCGCTTCATCCAGCTTGAGAGTAAAGGATTAA 207
DB 173 AAGTAGAGGAATTTGATGATGCTGCAGAAACCGAAGAGAGGTGTGGCGGAAATTC 232
QY 208 CCTCCAGAACAGCCAGTGTGATGAGCAGACATGATCGTG 248
DB 233 CCTGCCAAGACCACTGCAACAACGCGCAAGGTGTGGCAG 273

RESULT 7
US-08-913-374-1
Sequence 1, Application US/08913374
Patent No. 6057492
GENERAL INFORMATION:
APPLICANT: Petrus Theodorus Dehaan
TITLE OF INVENTION: Virus resistant or tolerant plants
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6057492artls Corporation
STREET: P.O. Box 12257
CITY: Research Triangle Park
STATE: No. 6057492th Carolina
COUNTRY: US

ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/913,374
FILING DATE: March 22, 1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Hoxie, Thomas
REGISTRATION NUMBER: 32,993
REFERENCE/DOCKET NUMBER: 137-1099/PCT
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4821 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Tosspovirus
US-08-913-374-1

Query Match 11.5%; Score 29; DB 3; Length 4821;
Best Local Similarity 63.8%; Pred. No. 2.7;
Matches 44; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 97 ATGCTTCAATCAAGTTCAGACATGCGCCCTCATGATGCTTTGGGCCCCCTTCATCAG 156
DB 476 ATGTTATATCAAGTTCAGAAACAATGCTCATATATCTCTGTTCGATTCACAG 535
QY 157 GAATGGAG 165
DB 536 AAGCTTAG 544

RESULT 8
US-08-083-590A-21/C
Sequence 21, Application US/08083590A
Patent No. 5786158
GENERAL INFORMATION:
APPLICANT: Artavanis-Tsakonas, S. et al.
TITLE OF INVENTION: Therapeutic And Diagnostic Methods
TITLE OF INVENTION: And Compositions Based On No. 5786158ch Proteins And
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/083,590A
FILING DATE: 25-JUN-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mistrock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7326-015
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212 790-9090
TELEFAX: 212 8698864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 9723 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 10..7419
US-08-083-590A-21

Query Match 11.3%; Score 28.6; DB 1; Length 9723;
Best Local Similarity 49.0%; Pred. No. 5.4;
Matches 76; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 11 TGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTC 70
2221 TGAGACCTCCAGTACAGTTTCATGATGACAGGATGCTGCGGCAATTCGTTCACTGTG 2162

DB 71 CAANAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTTCAGAAATGGCCTCAT 130
2161 AGTAGCAGCTGGGGTGATGGGTCCTCGGGGCATATACAGCGGAACCATTCACACCGT 2102

QY 131 TGATGCTTTGGGGCCCTTTCATCAGGAATGGAG 165
2101 TGATACATGTTGCACCTTCGACAGAGGATGGAG 2067

DB 2101 TGATACATGTTGCACCTTCGACAGAGGATGGAG 2067

RESULT 9
US-08-532-384-21/c
Sequence 21, Application US/08532384
Patent No. 6083904
GENERAL INFORMATION:
APPLICANT: Artavanis-Tsakonas, S. et al.
TITLE OF INVENTION: Therapeutic And Diagnostic Methods
TITLE OF INVENTION: And Compositions Based On No. 6083904ch Proteins And
NUMBER OF INVENTIONS: Nucleic Acids
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/532,384
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/083,590
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Mirock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7326-015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 790-9090
TELEFAX: 212 8698864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 9723 base pairs
TYPE: nucleic acid

STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 10..7419
US-08-532-384-21

Query Match 11.3%; Score 28.6; DB 3; Length 9723;
Best Local Similarity 49.0%; Pred. No. 5.4;
Matches 76; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 11 TGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTC 70
2221 TGAGACCTCCAGTACAGTTTCATGATGACAGGATGCTGCGGCAATTCGTTCACTGTG 2162

DB 71 CAANAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTTCAGAAATGGCCTCAT 130
2161 AGTAGCAGCTGGGGTGATGGGTCCTCGGGGCATATACAGCGGAACCATTCACACCGT 2102

QY 131 TGATGCTTTGGGGCCCTTTCATCAGGAATGGAG 165
2101 TGATACATGTTGCACCTTCGACAGAGGATGGAG 2067

DB 2101 TGATACATGTTGCACCTTCGACAGAGGATGGAG 2067

RESULT 10
US-08-594-031-80
Sequence 80, Application US/08594031
Patent No. 5783182
GENERAL INFORMATION:
APPLICANT: THOMPSON, Timothy C.
TITLE OF INVENTION: METHOD FOR IDENTIFYING METASTATIC SEQUENCES
NUMBER OF SEQUENCES: 175
CORRESPONDENCE ADDRESS:
ADDRESSEE: BAKER & BOTS, L.L.P.
STREET: 1299 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20004-2400
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/594,031
FILING DATE: 30-JAN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/006,838
FILING DATE: 16-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Remenick, James
REGISTRATION NUMBER: 36,902
REFERENCE/DOCKET NUMBER: 08146-0110
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-639-7700
TELEFAX: 202-639-7890
TELEX:
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 371 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE:
ORIGINAL SOURCE:
US-08-594-031-80

Query Match 11.1%; Score 28; DB 1; Length 371;
Best Local Similarity 55.0%; Pred. No. 1.6;
Matches 55; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 72 AAATGACAGAGTTTACAGACATATGCTTACATCAAGTTCAGAACATGCGCTCAATT 131

DB 75 AAATGCTCAATGTTTACAGAGCTGTGAAACAGGTCAGTTCAGATCGTGAATGCTTG 134

QY 132 GATGCTTTGGGCGCCCTTTCATCAGAAATGAGCTGTCT 171

DB 135 AGAATGCTTCTTCTGTGACATCAGAACTGGAATGTTT 174

RESULT 11
US-08-962-284-3/c
Sequence 3, Application US/08962284
Patent No. 5985608

GENERAL INFORMATION:

APPLICANT: Luna, Elizabeth J.
APPLICANT: Pestonjans, Kersi N.

APPLICANT: Wulfkubler, Julia D.

TITLE OF INVENTION: ACTIN-BINDING POLYPEPTIDES
TITLE OF INVENTION: AND NUCLEIC ACIDS ENCODING THE SAME

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/962,284

FILING DATE: 31-OCT-1997

ATTORNEY/AGENT INFORMATION:

NAME: Fasse, Peter J.

REGISTRATION NUMBER: 32,983

REFERENCE/DOCKET NUMBER: 07917/058001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/542-5070

TELEFAX: 617/542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 6463 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 201...5576

US-08-962-284-3

RESULT 12
US-08-331-081B-4/c
Sequence 4, Application US/08331081B
Patent No. 598697

GENERAL INFORMATION:

APPLICANT: Devlin, Robert H.

TITLE OF INVENTION: Transgenic Fish and Vectors Therefor

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: McFadden, Fincham

STREET: 225 Metcalfe Street, Suite 606

CITY: Ottawa

STATE: Ontario

COUNTRY: Canada

ZIP: K2P 1P9

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette 3.5 inch, 1.44 MB

MEDIUM TYPE: storage

COMPUTER: IBM PC or Compatibles

OPERATING SYSTEM: PC Dos 5.0

SOFTWARE: Wordperfect 5.1 (Palseq.txt)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/331,081B

FILING DATE: October 20, 1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: Canada 2,126,138

FILING DATE: June 17, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Fincham, H. Ian

REGISTRATION NUMBER: 26,375

REFERENCE/DOCKET NUMBER: 5478-1A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (613) 234-1907

TELEFAX: (613) 234-5233

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 3872 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-331-081B-4

Query Match 10.9%; Score 27.6; DB 2; Length 3872;
Best Local Similarity 48.1%; Pred. No. 7.5;
Matches 78; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 46 CAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAG 105

DB 2213 CACATCAGGCGCTGCAAGTAGGTTTGCAGAAATTCAGTACCTTGATGTATTTATCTTTG 2154

QY 106 ATCAAGTTCAAGACATGCGCTCATTCATGATGCTTTGGGCGCCCTTTCATCAGAAATGAG 165

DB 2153 TGAATAATGTAGAAATAATGTATGCTTATCTGTGTACATGATGATGATGATGAT 2094

QY 166 CTGTCTCTCAGCGCTCCATCAGCTTGAGAGTAAAGGATTA 207

DB 2093 CAATCACTCAATGCTGATGCAAAACACAGATATTAA 2052

RESULT 13

US-08-486-013-65

Sequence 65, Application US/08486013

Patent No. 5731149

GENERAL INFORMATION:

APPLICANT: Seisted, Michael E.

APPLICANT: Ouellette, Andre J.

TITLE OF INVENTION: Antibiotic Cryptidin Peptides and Methods

NUMBER OF SEQUENCES: 70

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell and Flores

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: US

ZIP: 92037

CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,013
FILING DATE: 14-AUG-1992
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/342,268
FILING DATE: 18-NOV-1994
APPLICATION NUMBER: US 07/930,649
FILING DATE: 14-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/889,020
FILING DATE: 26-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
REFERENCE/DOCKET NUMBER: P-UC 1206
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 445 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-486-013-65

Query Match 10.7%; Score 27; DB 1; Length 445;
Best Local Similarity 49.6%; Pred. No. 4;
Matches 69; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 93 ACATATGCTTCAGATCAAGTTCAGAACAAATGGCTTCATTGAGCTTTGGGCCCCCTTCA 152
DB 18 ACCAATCTCCAGGTGATTCAGCCATGAAAGACTCTGCTCCCTGCTGCTGCTGCTC 77
QY 153 TCAGGAATGAGAGCTGTCTTCAGCGCTCCATCCAGCTTGAGATTAAGGATTAACCTC 212
DB 78 TGCTGCAATTCAGATTCAGAGCTGATCCATTCAAGAGGAGAGAGACTTAACCTG 137
QY 213 CAGACAGCCAGTGATGA 231
DB 138 AGGAGCAGCCAGCAGATGA 156

RESULT 14
US-08-486-013-67
Sequence 67, Application US/08486013
Patent No. 5731149
GENERAL INFORMATION:
APPLICANT: Seistred, Michael E.
APPLICANT: Ouellette, Andre J.
TITLE OF INVENTION: Antibiotic Cryptidn Peptides and Methods
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESS: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,013
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/342,268
FILING DATE: 18-NOV-1994
APPLICATION NUMBER: US 07/930,649
FILING DATE: 14-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/889,020
FILING DATE: 26-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
REFERENCE/DOCKET NUMBER: P-UC 1206
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 445 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-486-013-67

Query Match 10.7%; Score 27; DB 1; Length 445;
Best Local Similarity 49.6%; Pred. No. 4;
Matches 69; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 93 ACATATGCTTCAGATCAAGTTCAGAACAAATGGCTTCATTGAGCTTTGGGCCCCCTTCA 152
DB 18 ACCAATCTCCAGGTGATTCAGCCATGAAAGACTCTGCTCCCTGCTGCTGCTGCTC 77
QY 153 TCAGGAATGAGAGCTGTCTTCAGCGCTCCATCCAGCTTGAGATTAAGGATTAACCTC 212
DB 78 TGCTGCAATTCAGATTCAGAGCTGATCCATTCAAGAGGAGAGAGACTTAACCTG 137
QY 213 CAGACAGCCAGTGATGA 231
DB 138 AGGAGCAGCCAGCAGATGA 156

RESULT 15
US-08-482-279-65
Sequence 65, Application US/08482279
Patent No. 5840498
GENERAL INFORMATION:
APPLICANT: Seistred, Michael E.
APPLICANT: Ouellette, Andre J.
TITLE OF INVENTION: Antibiotic Cryptidn Peptides and Methods
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESS: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,279
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/342,268
FILING DATE: 18-NOV-1994
APPLICATION NUMBER: US 07/930,649
FILING DATE: 14-AUG-1992
PRIOR APPLICATION DATA: US 07/889,020
APPLICATION NUMBER: US 07/889,020
FILING DATE: 26-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-UC 1206
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 445 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
S-08-482-279-65

Query Match 10.7%; Score 27; DB 2; Length 445;
Best Local Similarity 49.6%; Pred. No. 4;
Matches 69; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 93 ACATATGCTCAGATCAAGTTCAGAACATGCGCTCATGTGATGCTTTGGGCCCTTCA 152
DB 18 ACCATCTCTCCAGGTGACTTCACGACCAATGAGAGCTCTTGTCTCTGCCCCCTGTC 77
QY 153 TCAGGAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTC 212
DB 78 TGGTGGCATTCAGGTCCAGGCTGTATCCATTCAGAGCGAGAGAGAGACTTAAACTG 137
QY 213 CAGACAGCCAGTGATGA 231
DB 138 AGGAGCAGCCAGCATGA 156

Search completed: October 17, 2002, 11:14:03
Job time: 23.1163 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 7.10632 Seconds
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1739.205 Million cell updates/sec

Title: US-09-049-696-8
Perfect score: 485
Sequence: 1 AACAAAGTGTGTCATCATC.....GGCAGAGTGTGTCAGACAG 253

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

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-DB=Issued_Patents_AA-QFTX-fastan -SUFIX=rai -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsun62 -TRANS=human40.cdi
-LIST=45 -DOCLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptio -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-NO_XLPEXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEDOUT=120
-WARN_TIMEDOUT=30 -THREDS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_AA:*
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6: /cgn2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	410	84.5	914	4	US-09-193-562D-28
2	240	49.5	903	4	US-09-193-562D-46
3	234	48.2	902	4	US-09-193-562D-34
4	219	45.2	1000	4	US-09-193-562D-30
5	210	43.3	795	4	US-09-193-562D-11
6	210	43.3	821	4	US-09-193-562D-12
7	210	43.3	905	4	US-09-193-562D-2
8	194	40.0	943	4	US-09-193-562D-32
9	69.5	14.3	492	4	US-09-342-749-2
10	68	14.0	1507	6	5268270-2
11	66	13.6	400	2	US-08-713-298B-2
12	66	13.6	400	2	US-08-870-180B-2

13	66	13.6	400	3	US-08-814-052-4	Sequence 4, Appl1
14	66	13.6	400	3	US-08-812-829-4	Sequence 2, Appl1
15	66	13.6	400	4	US-09-226-529-2	Sequence 4, Appl1
16	66	13.6	462	2	US-08-870-180B-13	Sequence 13, Appl1
17	66	13.6	462	4	US-09-226-529-13	Sequence 13, Appl1
18	64.5	13.3	1229	3	US-09-310-293-2	Sequence 2, Appl1
19	64.5	13.3	1229	4	US-09-579-376-2	Sequence 2, Appl1
20	61.5	12.7	330	4	US-09-188-930-125	Sequence 125, App
21	61.5	12.7	617	4	US-09-188-930-303	Sequence 303, App
22	60	12.4	368	4	US-08-818-112-114	Sequence 114, App
23	60	12.4	368	4	US-08-818-111-109	Sequence 109, App
24	60	12.4	368	4	US-09-056-556-114	Sequence 114, App
25	60	12.4	378	2	US-09-055-097-1	Sequence 1, Appl1
26	59.5	12.3	467	2	US-08-727-548-2	Sequence 2, Appl1
27	59.5	12.3	467	4	US-08-945-574-1	Sequence 1, Appl1
28	59.5	12.8	731	4	US-09-185-160-11	Sequence 11, Appl1
29	59	12.2	777	2	US-08-477-396A-4	Sequence 4, Appl1
30	58.5	12.1	233	1	US-08-333-565-59	Sequence 59, Appl1
31	58.5	12.1	233	1	US-08-081-448-6	Sequence 6, Appl1
32	58.5	12.1	233	1	US-08-607-269-24	Sequence 24, Appl1
33	58.5	12.1	233	1	US-08-471-058-14	Sequence 14, Appl1
34	58.5	12.1	233	2	US-08-661-479-59	Sequence 59, Appl1
35	58.5	12.1	233	2	US-08-470-670A-7	Sequence 7, Appl1
36	58.5	12.1	233	3	US-08-471-057-14	Sequence 14, Appl1
37	58.5	12.1	233	4	US-08-481-739-2	Sequence 2, Appl1
38	58.5	12.1	233	4	US-09-167-921-2	Sequence 2, Appl1
39	58.5	12.1	233	4	US-09-323-743-2	Sequence 2, Appl1
40	58.5	12.1	233	4	US-08-461-511A-7	Sequence 7, Appl1
41	58.5	12.1	233	5	PCT-US94-07089-7	Sequence 7, Appl1
42	58.5	12.1	233	5	PCT-US95-04600-24	Sequence 24, Appl1
43	58.5	12.1	761	4	US-09-235-451-4	Sequence 4, Appl1
44	58	12.0	229	4	US-08-751-359-22	Sequence 22, Appl1
45	58	12.0	229	4	US-08-907-146-22	Sequence 22, Appl1

ALIGNMENTS

```
RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 4.33e-45 Length: 914
Score: 410.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-193-562D-28 (1-914)
QY 3 CAAGTGGTCCATCCACAGTGCCTTGCGCCCTGCAGCTCAAGACAGAG 62
Db 427 Glnsercylalallelelstrvaialaleuglyproserlalaaglngleugln 446
QY 63 GACCTGTCACAAATGCAGAGAGGATTACAGACATATAGCTTCACATCAAGTTCAGACAAAT 122
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US-09-049-696-8 (1-253) x US-09-193-562D-30 (1-1000)

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Db 429 GlnserglYthrValIleHisThrIleAlaLeuclYProSerAlaAspGluLeuGlu 448
QY 63 GAGCTGCCAAATGACAGG-----
    ||||| |||||
Db 449 ThrLeuSerAsnMetThrGlyLeuHisLysGlyHisCysTyrThrGlnUserSerTyrSer 468
QY 84 -----GTTTACAGACATATGCTTACATGATCAAGTTCAAGAACAT 122
    ||| :|||:|||||:|||||:|||||:|||||:|||||:|||||
Db 469 AlaGlyLysPheIlePheCysGlyHisArgPheThrAlaHisLysAsnIle-----Asn 486
QY 123 GGCTCATTTGATGCTTTGGGCGCCCTTTCATCAGGAATGAGAGCTGTCTCAGCGCTCC 182
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 487 GlyLeuIleAspAlaPheSerArgIleSerSerArgSerGlySerIleSerGlnGlnAla 506
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGATGATGATGACAGTG 242
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
507 LeuGlnLeuGlnUserLysThrLeuAsnIleProAlaLysTyrStrPleAsnGlyThrVal 526
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QY 243 ATCGTGCAC 251
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Db 527 ProValasp 529

RESULT 5

US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:

Score:	4,45e-19	Length:	795
Percent Similarity:	210.00	Matches:	44
Best Local Similarity:	74.70%	Conservative:	18
Query Match:	53.01%	Mismatches:	19
	43.30%	Indels:	2
		Gaps:	1

US-09-049-696-8 (1-253) x US-09-193-562D-11 (1-795)

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QY 3 CAAAGTGGTCATCATCCACACAGTGGCCCTTGAGAGCTCAAGAACTAGAG 62
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Db 431 ArgserglYalIleIleHisThrIleAlaLeuclYProSerAlaAlaLysGluLeuGlu 450
QY 63 GAGCTGCCAAATGACAGGCTTACAGACATATGCTTCAAGTTCAAGTTCAAGAACAT 122
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Db 451 ThrLysSerAsnMetThrGlyLysTyrArgPhePheAlaAsnLysAspIle-----Thr 468
QY 123 GGCTCATTTGATGCTTTGGGCGCCCTTTCATCAGGAATGAGAGCTGTCTCAGCGCTCC 182
    ||||| :|||:|||||:|||||:|||||:|||||:|||||:|||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGATGATGATGACAGTG 242
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 489 IleGlnLeuGlnUserLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
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QY 243 ATCGTGCAC 251
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Db 509 ProValasp 511

RESULT 6

US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:

Pred. No.:	4,49e-19	Length:	821
Score:	210.00	Matches:	44
Percent Similarity:	74.70%	Conservative:	18
Best Local Similarity:	53.01%	Mismatches:	19
Query Match:	43.30%	Indels:	2
		Gaps:	1

US-09-049-696-8 (1-253) x US-09-193-562D-12 (1-821)

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QY 3 CAAAGTGGTCATCATCCACACAGTGGCCCTTGAGAGCTCAAGAACTAGAG 62
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Db 431 ArgserglYalIleIleHisThrIleAlaLeuclYProSerAlaAlaLysGluLeuGlu 450
QY 63 GAGCTGCCAAATGACAGGCTTACAGACATATGCTTCAAGTTCAAGTTCAAGAACAT 122
    ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 451 ThrLysSerAsnMetThrGlyLysTyrArgPhePheAlaAsnLysAspIle-----Thr 468
QY 123 GGCTCATTTGATGCTTTGGGCGCCCTTTCATCAGGAATGAGAGCTGTCTCAGCGCTCC 182
    ||||| :|||:|||||:|||||:|||||:|||||:|||||:|||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGATGATGATGACAGTG 242
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 489 IleGlnLeuGlnUserLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
QY 243 ATCGTGCAC 251
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Db 509 ProValasp 511
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RESULT 7

US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905

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; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 4,6e-19          Length: 905
Score: 210.00              Matches: 44
Percent Similarity: 74.70%  Conservative: 18
Best Local Similarity: 53.01% Mismatches: 19
Query Match: 43.30%        Indels: 2
DB: 4                      Gaps: 1

US-09-049-696-8 (1-253) x US-09-193-562D-2 (1-905)

OY 3 CAAAGTGTGCATCATCCACACAGTCGCTTGGGGCCCTGACGCTCAGACTAGAG 62
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DB 431 ArgSerGlyAlaIleIleIleThrIleAlaLeuGlyProSerAlaAlaLysGluLeu 450
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    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
    451 ThrLysSerAsnMetThrGlyGlyTrpArgPheAlaAsnLysAspIle-----Thr 468
OY 123 GGCCTCATGATGCTTTGGGGCCCTTCATCAGGAATGAGAGTGTCTCAGCGCTCC 182
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 469 GlyLeuThrAsnAlaPheSerArgLysSerArgSerGlySerIleThrGlnGlnAla 488
OY 183 ATCCAGCTTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAGTGAATGACACAGTG 242
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 489 IleglnLeuGlySerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
OY 243 ATCGTGGAC 251
    ::::::::::
DB 509 ProValAsp 511

RESULT 8
US-09-193-562D-32
; Sequence 32, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 32
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:
Pred. No.: 5,61e-17          Length: 943
Score: 194.00              Matches: 40
Percent Similarity: 67.07%  Conservative: 15
Best Local Similarity: 48.78% Mismatches: 27
Query Match: 40.00%        Indels: 0
DB: 4                      Gaps: 0

US-09-049-696-8 (1-253) x US-09-193-562D-32 (1-943)

OY 6 AGTGTCATCATCCACACAGTCGCTTGGGGCCCTGACGCTCAGACTAGAGAG 65
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 436 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaIleProAsnLeuGluGln 455
OY 66 CTTGCAAAATGACAGAGGTTTACAGACATATGCTTCGATCAGTTCAGAACTGAC 125
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 456 LeuSerArgLeuThrGlyGlyLeuLysPhePheValProAspLysSerAsnSer 475
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OY 126 CTCATGATGCTTTGGGGCCCTTCATCAGGAATGAGAGTGTCTCTCAGCGCTCATC 185
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 476 MetIleAspAlaPheSerArgIleSerSerGlyThrLysPheIleGlnHisIle 495
OY 186 CAGCTTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAGTGAATGACAGTATC 245
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 496 GlnLeuGlySerThrGlyGluAsnValLysProHisIshGlnLeuLysAsnThrValThr 515
OY 246 GTGGAC 251
    ::::::::::
DB 516 ValAsp 517

RESULT 9
US-09-342-749-2
; Sequence 2, Application US/09342749
; Patent No. 6166194
; GENERAL INFORMATION:
; APPLICANT: Wong, Alexander K.C.
; APPLICANT: Tavligian, Sean V.
; APPLICANT: Teng, David H.-F.
; APPLICANT: Myriad Genetics, Inc.
; TITLE OF INVENTION: TMPRSS2 is a Tumor Suppressor
; FILE REFERENCE: 2318-202
; CURRENT APPLICATION NUMBER: US/09/342,749
; EARLIER FILING DATE: 1999-06-29
; EARLIER APPLICATION NUMBER: US 60/091,044
; EARLIER FILING DATE: 1998-06-29
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-342-749-2

Alignment Scores:
Pred. No.: 0.76              Length: 492
Score: 69.50                Matches: 23
Percent Similarity: 48.05%  Conservative: 14
Best Local Similarity: 29.87% Mismatches: 32
Query Match: 14.33%        Indels: 8
DB: 4                      Gaps: 2

US-09-049-696-8 (1-253) x US-09-342-749-2 (1-492)

OY 11 TCCATCATCCACACAGTCGCTTGGGGCCCTTCAGCTCAGACTAGAGAGCTGTC 70
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 66 CysThrGlnProLysSerProSerGlyThrValCysThrSerLysThrLysAlaLeu 85
OY 71 CAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACTGCGTCAT 130
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 86 -CysIleThrLeuThrLeuGlyThrPheLeuValGlyAlaIleAlaLeuAlaIleLeu 105
OY 131 TGATGCTTTT---GGGGCCCTTCATCAGGAATGAGAGCTGTCTCAGCGCTCATCA 187
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 105 wtTrpLysPheMetGlySerLysCysSerAsnSerLys-----IleG1 119
OY 188 GCTTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAGTGAATGATGTC 236
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 119 ucysAspSerSerGlyThrCysIleAsnProSerAsnTrpCysAspGly 135

RESULT 10
5268270-2
; Patent No. 5268270
; APPLICANT: Meyer, Thomas F.; Halter, Roman; Pohner, Johannes
; TITLE OF INVENTION: PROCESS FOR PRODUCING PROTEINS USING GRAM
; NEGATIVE HOST CELLS
; NUMBER OF SEQUENCES: 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/171,872
; FILING DATE: 01-JUL-1987
; SEQ ID NO: 2:
```

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US-08-713-298B-2

Alignment Scores:
Pred. No.: 2.06 Length: 400
Score: 66.00 Matches: 16
Percent Similarity: 58.70% Conservative: 11
Best Local Similarity: 34.78% Mismatches: 15
Query Match: 13.61% Indels: 4
DB: 2 Gaps: 2

US-09-049-696-8 (1-253) x US-08-713-298B-2 (1-400)

QY 93 ACATATGCTTCAGTCATGTCAGAACATGCGCTCATTTGATGCTTTGGGCCCTTCA 152
Db 23 ThrThraAlaAsp-----AsnAspSerValValGluGlnIleuIleuSer 39
QY 153 TCAGGAATATGGA---GCTGTCTCTCAAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAC 209
Db 40 TlSerAsnngIuLeuValAsnGluArglyGluGlnValGlnIleuysylmetser 59
QY 210 CTCGAGAACAGCCAGTGG 227
Db 60 SerHisgIeuGlnItrp 65

RESULT 12
US-08-870-180B-2
: Sequence 2, Application US/08870180B
: Patent No. 5945327
: GENERAL INFORMATION:
: APPLICANT: Outtrup, Helle
: APPLICANT: Dambmann, Claus
: APPLICANT: Olsen, Arne
: APPLICANT: Bisg rd-Frantzen, Henrik
: APPLICANT: Sch lein, Martin
: APPLICANT: J rgensen, Per
: APPLICANT: Bjørnsvad, Mads
: TITLE OF INVENTION: DNA Constructs and Methods of Producing
: TITLE OF INVENTION: Cellulytic Enzymes
: NUMBER OF SEQUENCES: 14
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: No. 5945327 No. 5945327disk of No. 5945327th America, Inc
: STREET: 405 Lexington Avenue, Suite 6400
: CITY: New York
: STATE: New York
: COUNTRY: U.S.A.
: ZIP: 10174-6401
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/870,180B
: FILING DATE: 6-June-1997
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Rozek, Carol E.
: REGISTRATION NUMBER: 36,993
: REFERENCE/DOCKET NUMBER: 3794.434-US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 212 867 0123
: TELEFAX: 212 867 0298
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 400 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-870-180B-2

Alignment Scores:
Pred. No.: 2.06 Length: 400
Score: 66.00 Matches: 16
Mismatches: 15
Indels: 4
Gaps: 2

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QY 153 TCAGGAATGGA--GCTGCTCTCAGGCTCCATCCAGCTTGAGAGTAAGGATTAAAC 209
|||||
Db 40 IleseransnglyluLeuValasnGluargGlygluGlnValGlnLeuLysGlyMetSer 59
|||
QY 210 CTCGAGAAACGACCGACTG 227
|||||
Db 60 SerHisgLyLeuGlnTrp 65

RESULT 15

US-09-226-529-2

; Sequence 2, Application US/09226529

; Patent No. 6280984

; GENERAL INFORMATION:

; APPLICANT: Outtrup, Helle

; APPLICANT: Dammann, Claus

; APPLICANT: Olsen, Arne

; APPLICANT: Bisg rd-Frantzen, Henrik

; APPLICANT: Sch lein, Martin

; APPLICANT: J rgensen, Per

; APPLICANT: Bjoernvad, Mads

; TITLE OF INVENTION: DNA Constructs and Methods of Producing

; CELLULYTIC ENZYMES

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: No. 62809840 No. 6280984disk of No. 6280984th America, Inc.

; STREET: 405 Lexington Avenue, Suite 6400

; CITY: New York

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 10174-6401

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patentln Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/226,529

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/870,180

; FILING DATE: 6-June-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Rozek, Carol E.

; REGISTRATION NUMBER: 36,993

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 212 867 0298

; TELEFAX: 212 867 0123

; REFERENCE/DOCKET NUMBER: 3794.434-US

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 400 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-09-226-529-2

Alignment Scores:

Pred. No.: 2.06 Length: 400

Score: 66.00 Matches: 16

Percent Similarity: 58.70% Conservative: 11

Best local Similarity: 34.78% Mismatches: 15

Query Match: 13.61% Indels: 4

DB: 4 Gaps: 2

US-09-049-696-8 (1-253) x US-09-226-529-2 (1-400)

QY 93 ACATATGCTTCAGATCAGATCAGACAAATGCGCTCATTTGCTTTGGGCGCTTCA 152
||| |||
Db 23 ThrThrAlaAlaasp-----AsnAspSerValValGluGluHisGlyGlnLeuSer 39
||| |||
QY 153 TCAGGAATGGA--GCTGCTCTCAGGCTCCATCCAGCTTGAGAGTAAGGATTAAAC 209
||||| |||
||| |||

Db 40 IleseransnglyluLeuValasnGluargGlygluGlnValGlnLeuLysGlyMetSer 59
QY 210 CTCGAGAAACGACCGACTG 227
|||
Db 60 SerHisgLyLeuGlnTrp 65

Search completed: October 17, 2002, 17:59:27
Job time : 9.10632 secs

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GENERAL INFORMATION:

```
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1
```

Query Match 38.4%; Score 111; DB 4; Length 3317;

Best Local Similarity 65.1%; Pred. No. 7.5e-29;

Matches 181; Conservative 0; Mismatches 91; Indels 6; Gaps 1;

```
11 ACTGATGATGAAATTTGCTGCTGATGAGGAGAACACACTATAGTGGTGC 70
1278 ACTTCTGTTCTGAATTCATTAATTAATGATGAGGAGAAATGAATTAATTCATGC 1337
71 TTATACGAGTCAAAACAAAGTGTGCTGATCCATCCACAGTGGTGGGCGCTCTGCA 130
1338 TTGAGAGTGTAAACAGAGTGTGATCATCCACACCATGCTCTGGAGCCCTGCT 1397
131 GCTCAAGACTAGAGAGAGCTGTCCAAATGACAGAGAGTTTACAGACATATGCTTCAGAT 190
1398 GCCAAAGAACTGAGACATGTTCAAAATATGACAGAGAGATATC-----GTTTTTTTGGC 1451
191 CAAGTTCAGAACATGAGCTGATGATGCTTTGGGGCCCTTATCAGAGAAATGAGAGCT 250
1452 AATTAACACATTAATGCTGCTTACTTAATGCTTCAATGATTAATTCATCAGAGTGAAGC 1511
251 GTCCTCAGCGCTCCATCCAGCTTGAAGTGAAGGATT 288
1512 ATCAGCTCAGCAGGCTATTCAGATTGGAAGCAAGCCCTT 1549
```

RESULT 3

```
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33
```

Query Match 35.6%; Score 103; DB 4; Length 3022;

Best Local Similarity 63.3%; Pred. No. 4.4e-26;

Matches 176; Conservative 0; Mismatches 96; Indels 6; Gaps 1;

```
11 ACTGATGATCTGAATTTGCTGCTGATGAGGAGAACACACTATAGTGGTGC 70
1230 ACTTCCGCTTGTGATGATGCTGATGAGGAGAAATATGAAATACGTTCTGCTGC 1289
71 TTATACGAGTCAAAACAAAGTGTGCTGATCCATCCACAGTGGTGGGCGCTCTGCA 130
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Db 1290 TTTGAGCCGCTCTCTCGCAGGCGGTCCATTCACACCATATGCTTGGGGCTTCGGCT 1349
Qy 131 GCTCAAGACTAGAGAGAGCTGTCCAAATGACAGAGGTTTACACATATAGCTTCAGAT 190
Db 1350 GCCGAGAACTGAGACTCTGTGACATGACAGAGGCTTCGTTCTTATGCCACACAA 1409
Qy 191 CAAGTTCAGAACAAATGAGCTCATGATGCTTTGGGGCCCTTTCATCAGAAATGAGCT 250
Db 1410 GACCT-----AAACAGCTTATGATGCTTTCAGTAAATTTATCTACAAAGTGCAGC 1463
Qy 251 GTCCTCAGCGCTCCATCCAGCTTGAAGTGAAGGATT 288
Db 1464 GTCCTCCAGCAGGCTCTGCAAGTTGAGAGCAAGCCCTT 1501
```

RESULT 4

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US-09-193-562D-31
; Sequence 31, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 31
; LENGTH: 2970
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-31
```

Query Match 32.6%; Score 94.2; DB 4; Length 2970;

Best Local Similarity 58.7%; Pred. No. 5.1e-23;

Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

```
Qy 10 AACTGATGATCTGAATTTGCTGCTGATGAGGAGAACACACTATAGGAGTGC 69
Db 1335 AGCTTATGCTCTGTGATGATTAATTAATGACAGGAGATCATTAAGCTTCTTGGCAATTG 1394
Qy 70 CTTTACGAGGTCAAAACAAAGTGTGCTGATCCATCCACAGTGGTGGGCGCTCTGTC 129
Db 1395 CTTACCCAGCTGTGCTGACAGAGTGTCAAAATTCATCTGCGCTGGCTTATCTGTC 1454
Qy 130 AGCTCAAGAACTAGAGAGAGCTGTCCAAATGACAGAGAGTTTACAGACATATGCTTCAGA 189
Db 1455 AGCCCAAAATCTGAGGAATTAATACGCTTTCACAGAGAGTTTAAAGTTTGTTCAGCA 1514
Qy 190 TCAAGTTCAGAACAAATGAGCTCATGATGCTTTGGGGCCCTTTCATCAGAGAAATGAGAG 249
Db 1515 TATATCAAACTCCAAATGACATGATGATGCTTTCAGTAAATTTCTCTCTGGAAGTGCAGA 1574
Qy 250 TGTCTCAGCGCTCCATCCAGCTTGAAGTGAAGG 285
Db 1575 CATTTCCAGCAACATATTAAGCTTGAAGTGAAGG 1610
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RESULT 5

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US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
```



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: Patent No. 6083904
: GENERAL INFORMATION:
: APPLICANT: Artavanis-Tsakonas, S. et al.
: TITLE OF INVENTION: Therapeutic And Diagnostic Methods
: TITLE OF INVENTION: And Compositions Based On No. 6083904ch Proteins And
: TITLE OF INVENTION: Nucleic Acids
: NUMBER OF SEQUENCES: 21
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Pennie & Edmonds
: STREET: 1155 Avenue of the Americas
: CITY: New York
: STATE: New York
: COUNTRY: U.S.A.
: ZIP: 10036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/532,384
: FILING DATE:
: CLASSIFICATION: 424
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/083,590
: FILING DATE: 25-JUN-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: MISTOCK, S. Leslie
: REGISTRATION NUMBER: 18,872
: REFERENCE/DOCKET NUMBER: 7326-015
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 212 790-9090
: TELEFAX: 212 869864/9741
: TELEX: 66141 PENNIE
: INFORMATION FOR SEQ ID NO: 21:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 9723 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: unknown
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 10..7419
: US-08-532-384-21
:
: Query Match 9.9%; Score 28.6; DB 3; Length 9723;
: Best Local Similarity 49.0%; Pred. No. 6.7;
: Matches 76; Conservative 0; Mismatches 79; Indels 0; Gaps 0
:
: 94 TGCATCATCCACACAGTCGCTTTGGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTC 153
: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
: Db 2221 TGAGACCTCCAGTACAGTTTCATGAGTACGAGGATGTGCTGAGGCATTGCTCACCTGTG 2162
:
: QY 154 CAAATGACAGAGAGGTTTACAGACATATGCTTCAATCAAGTTCAGAACAAATGGCCTAT 213
: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
: Db 2161 AGTACACAGCTGGGGGAGTGGGGGTCCCTCGGGGCATATACAGCGGAACCACTTCACACCGT 2102
:
: QY 214 TGATGCTTTGGGGCCCTTTTCATCAGGAATGAG 248
: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
: Db 2101 TGATGACATGTTGCACACCTTGGCAGCAGGGATTGGAG 2067
:
: RESULT 9
: US-08-594-031-80
: Sequence 80, Application US/08594031
: Patent No. 5783182
: GENERAL INFORMATION:
: APPLICANT: THOMPSON, Timothy C.
: TITLE OF INVENTION: METHOD FOR IDENTIFYING METASTATIC SEQUENCES
: NUMBER OF SEQUENCES: 175
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: BAKER & BOTTS, L.L.P.

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1 STREET: 1299 Pennsylvania Avenue, N.W.
2 CITY: Washington
3 STATE: DC
4 COUNTRY: USA
5 ZIP: 20004-2400
6
7 COMPUTER READABLE FORM:
8 MEDIUM TYPE: Diskette
9 COMPUTER: IBM Compatible
10 OPERATING SYSTEM: DOS
11 SOFTWARE: FastEO Version 1.5
12
13 CURRENT APPLICATION DATA:
14 APPLICATION NUMBER: US/08/594.031
15 FILING DATE: 30-JAN-1996
16 CLASSIFICATION: 435
17 PRIOR APPLICATION DATA:
18 APPLICATION NUMBER: 60/006, 838
19 FILING DATE: 16-NOV-1995
20 ATTORNEY/AGENT INFORMATION:
21 NAME: Remenick, James
22 REGISTRATION NUMBER: 36,902
23 REFERENCE/DOCKET NUMBER: 0A146-0110
24 TELECOMMUNICATION INFORMATION:
25 TELEPHONE: 202-639-7700
26 TELEFAX: 202-639-7890
27
28 TEXT:
29
30 INFORMATION FOR SEQ ID NO: 80:
31
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 371 base pairs
34 TYPE: nucleic acid
35 STRANDEDNESS: single
36 TOPOLOGY: linear
37
38 MOLECULE TYPE: CDNA
39
40 HYPOTHETICAL: NO
41
42 ANTI-SENSE: NO
43
44 FRAGMENT TYPE:
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46 ORIGINAL SOURCE:
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48 US-08-594-031-80
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; TELEFAX: (414) 277-5591

US-08-526-840B-30

LOCATION: 1..8130
US-08-405-496A-5
Query Match 9.3%; Score 26.8; DB 2; Length 8133;
Best Local Similarity 57.0%; Pred. No. 26;
Matches 49; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
QY 173 CAGACATATGCTTCAGATCAAGTTCAAGACATGCGCTCATGATGCTTTGGGCCCTT 232
DB 1567 CAGCAGAGTCGCAAAATATCAATTTGAGAAATATGATAGAGATTAATCTGGTGCATCTCTT 1626
QY 233 TCATCAGGAAATGAGCTGTCTCTCA 258
DB 1627 TCTGAAGACAAATGGGGTAGACTTTAA 1652
RESULT 15
US-08-915-136-5
Sequence 5, Application US/08915136
Patent No. 6290960
GENERAL INFORMATION:
APPLICANT: KINK, JOHN A.
APPLICANT: THALLEY, BRUCE S.
APPLICANT: PADHYE, NISHA V.
APPLICANT: FIRCA, JOSEPH R.
APPLICANT: STAFFORD, DOUGLAS C.
TITLE OF INVENTION: VACCINE AND ANTITOXIN FOR TREATMENT AND
NUMBER OF INVENTION: PREVENTION OF C. DIFFICILE DISEASE
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: MEDLEN & CARROLL, LLP
STREET: 220 MONTGOMERY STREET, SUITE 2200
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/915,136
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/480,604
FILING DATE:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/405,496
FILING DATE: 16-MAR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/329,154
FILING DATE: 25-OCT-1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/161,907
FILING DATE: 02-DEC-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/985,321
FILING DATE: 04-DEC-1992
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/429,791
FILING DATE: 31-OCT-1989
ATTORNEY/AGENT INFORMATION:
NAME: INGOLIA, DIANE E.
REGISTRATION NUMBER: 40,027
REFERENCE/DOCKET NUMBER: OPD-01763
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ. ID NO. 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 8133 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..8130
US-08-915-136-5
Query Match 9.3%; Score 26.8; DB 4; Length 8133;
Best Local Similarity 57.0%; Pred. No. 26;
Matches 49; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
QY 173 CAGACATATGCTTCAGATCAAGTTCAAGACATGCGCTCATGATGCTTTGGGCCCTT 232
DB 1567 CAGCAGAGTCGCAAAATATCAATTTGAGAAATATGATAGAGATTAATCTGGTGCATCTCTT 1626
QY 233 TCATCAGGAAATGAGCTGTCTCTCA 258
DB 1627 TCTGAAGACAAATGGGGTAGACTTTAA 1652

Search completed: October 17, 2002, 11:13:49
Job time: 26.4135 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 8.1175 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-7
Perfect score: 531
Sequence: 1 GAATATTCACATGATGAT.....AGCTTGAGAGTAAGGATTA 289

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Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DB-issued_Patents_AA-QFMT-fastan-SUPFIX-ra1-MINMATCH=0.1-LOOPEL=0
-LOOPEXT=0-UNITS-bits-START=1-END=1-MATRIX-biosum62-TRANS-human40.cdl
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-MODE=LOCAL-OUTFMT=pct-NORM-ext-HEAPSIZE=500-MINLEN=0-MAXLEN=200000000
-USER=US09049696.fcgn1.1.57-errnat.16102002.115821.24739-NCPU=6-ICPU=3
-NO_XLPPX-NO_MAP-LARGEOUTER-NEG_SCORES=0-WAIT-LOGLOG-DEV_TIMEOUT=120
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Database : Issued_Patents_AA:*

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- 2: /cgcn2_6/prodata/2/1aa/5B.COMB.pep:*
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- 5: /cgcn2_6/prodata/2/1aa/6CTUS.COMB.pep:*
- 6: /cgcn2_6/prodata/2/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	472	88.9	914	4	US-09-193-562D-28
2	285	53.7	903	4	US-09-193-562D-46
3	281	52.9	902	4	US-09-193-562D-34
4	276	52.0	795	4	US-09-193-562D-11
5	276	52.0	821	4	US-09-193-562D-12
6	276	52.0	905	4	US-09-193-562D-2
7	262	49.3	1000	4	US-09-193-562D-30
8	218	41.1	943	4	US-09-193-562D-32
9	70.5	13.3	777	2	US-08-477-396A-4
10	68.5	12.9	212	2	US-08-477-396A-2
11	66.5	12.5	189	4	US-09-123-492A-1
12	66.5	12.5	779	1	US-08-426-627-4

13	66.5	12.5	779	1	US-08-426-627-24	Sequence 24, Appl
14	66.5	12.5	836	1	US-08-426-627-6	Sequence 6, Appl1
15	66.5	12.5	837	1	US-08-426-627-23	Sequence 23, Appl1
16	65	12.2	1437	2	US-09-061-400-2	Sequence 2, Appl1
17	65	12.2	1453	2	US-09-001-273-2	Sequence 2, Appl1
18	65	12.2	1453	4	US-08-843-459A-2	Sequence 2, Appl1
19	64.5	12.1	151	2	US-08-387-942C-46	Sequence 46, Appl1
20	64.5	12.1	997	2	US-08-387-942C-4	Sequence 4, Appl1
21	62.5	11.8	1049	3	US-08-772-270A-11	Sequence 11, Appl1
22	62.5	11.8	1244	5	PCR-US93-10500-2	Sequence 2, Appl1
23	62	11.7	111	4	US-08-905-223-468	Sequence 468, App
24	62	11.7	3144	1	US-08-246-982A-6	Sequence 6, Appl1
25	62	11.7	3144	1	US-08-453-265-6	Sequence 6, Appl1
26	62	11.7	3144	2	US-08-457-273B-42	Sequence 42, Appl
27	62	11.7	3144	3	US-08-556-419-21	Sequence 21, Appl
28	62	11.7	3144	4	US-09-041-886-15	Sequence 15, Appl
29	61.5	11.6	330	4	US-09-188-930-125	Sequence 125, App
30	61.5	11.6	575	4	US-08-924-345-3	Sequence 3, Appl1
31	61.5	11.6	617	1	US-08-191-866D-58	Sequence 58, Appl
32	61.5	11.6	617	2	US-08-185-949B-58	Sequence 58, Appl
33	61.5	11.6	617	4	US-09-188-930-303	Sequence 303, App
34	61.5	11.6	1229	4	US-09-310-293-2	Sequence 2, Appl1
35	61.5	11.6	1229	4	US-09-579-376-2	Sequence 2, Appl1
36	61	11.5	232	1	US-08-508-448C-19	Sequence 19, Appl
37	61	11.5	418	1	US-08-508-448C-25	Sequence 25, Appl
38	61	11.5	510	1	US-08-742-273-2	Sequence 2, Appl1
39	60.5	11.4	153	2	US-08-387-942C-51	Sequence 51, Appl
40	60.5	11.4	872	2	US-08-387-942C-5	Sequence 5, Appl1
41	60	11.3	368	4	US-08-818-112-114	Sequence 114, App
42	60	11.3	368	4	US-08-818-111-109	Sequence 109, App
43	60	11.3	368	4	US-09-056-556-114	Sequence 114, App
44	60	11.3	370	2	US-08-231-342-6	Sequence 6, Appl1
45	60	11.3	378	2	US-09-055-097-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 1.13e-52
Score: 472.00
Percent Similarity: 98.96%
Best Local Similarity: 98.96%
Query Match: 88.89%
DB: 4
Length: 914
Matches: 95
Conservative: 0
Mismatches: 1
Indels: 0
Gaps: 0

US-09-049-696-7 (1-289) x US-09-193-562D-28 (1-914)

OY 2 AAATATTCACATGATGATGAAATTGCTGCTGCGATGCGGAGACACACTATA 61
DB 399 LysTyrProThrAspIleSergIuileValIleuThrAspIyluIuSpsanThrIle 418
OY 62 AGTGGTGCTTTAAGCAGGTCACAAAGTNGTCCATCCTACACAGTGGCTTGGGG 121

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Db 419 SerGlyCysPheAsnGlnValIlyGlnSerGlyAlaIleIleIleIstHValAlaLeuGly 438
OY 122 CCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAATAAGACAGAGCTTTACAGACAT 181
Db 439 ProSerAlaAlaGlnGlnIleGlnIleGlnIleuSerIlyMetIlnGlyGlyLeuGlnIlnTrp 458
OY 182 GCTTCACATCAAGTTCAGAACAAATGAGCTCCATTGATGCTTTGGGGCCCTTTCATCAGA 241
Db 459 AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlnGlyAlaLeuSerSerGly 478
OY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTA 289
Db 479 AsnGlyAlaValSerGlnArgSerIleGlnIleuGlnIleuSerGlyLeu 494

RESULT 2
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 46
LENGTH: 903
TYPE: PRF
ORGANISM: Unknown
FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016
US-09-193-562D-46

Alignment Scores:
Pred. No.: 1.66e-28 Length: 903
Score: 285.00 Matches: 59
Percent Similarity: 77.42% Conservative: 13
Best Local Similarity: 63.44% Mismatches: 19
Query Match: 53.67% Indels: 2
Gaps: 1

US-09-049-696-7 (1-289) x US-09-193-562D-46 (1-903)
OY 11 ACTGATGATCTGAATTTGTGCTGCTGACGATGGGAGAACACATATAAGTGGTGC 70
Db 405 ThrSerGlySerGlnIleIleIleuSerIlnPheArgIlyGlnAspAsnGlnIleIstHSerGly 424
OY 71 TTTAAAGAGGTCAAAACAAAGTGGCCATTCACACACAGTGGCTTTGGGGCCCTGTGA 130
Db 425 IleGlnGlnValIlyGlnSerGlyAlaIleIleIstHValAlaLeuGlyProSerAla 444
OY 131 GCTCAAGAACTAGAGAGCTGTCCAAATAGACAGAGCTTTCACAGACATATGCTCAGAT 190
Db 445 AlaIlyGlnIleuGlnIlnTrpIleuSerAspMetIlnGlyGlnIstHArgPheIlyAlaAsnIly 464
OY 191 CAAGTTCAGAACAAATGGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCT 250
Db 465 AspIle-----AsnIlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySer 482
OY 251 GTCCTCAGACGCTCCATCCAGCTTGAGAGTAAGGATTA 289
Db 483 IleTrnGlnIlnTrpIleGlnIleuGlnIleuSerIlyAlaLeu 495

RESULT 3
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:

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US-09-049-696-7 (1-289) x US-09-193-562D-34 (1-902)			
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Db	405	ThrsrGlgSerGluIleValleuIeuThrspsGlyIuaspAsGlyIleArgSerGlys	42
OY	71	TTTAAAGAGGTCAACAAAGTNGTCCCATCATCCACACAGTCGCTTTGGGGCCCTGCA	13
Db	425	PheGluIaIaValSerArgSerGlyIaIleIleHisThrIleAlaLeuGlyProSerArg	44
OY	131	GCTCAAGACTNAGAGAGACTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGAT	19
Db	445	AlaArgGluIeuGluThrLeuSerAspMetThrGlyGlyLeuArgPheArgAlaAsnGlys	46
OY	191	CAAGTTCAGAACATAGCGCTCATTCATGATGCTTTGGGGCCCTTTCACAGGAATGGAGCT	25
Db	465	AspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSerSerThrSerGlySer	48
OY	251	GTCCTCTCAGCGCTCCATCCACGCTTGACAGTAAAG	283
Db	483	ValSerGlnGlnAlaIleuGlnIleuGlnSerGlys	493
RESULT 4			
US-09-193-562D-11			
; Sequence 11, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617.0052			
; CURRENT APPLICATION NUMBER: US/09/193,562D			
; CURRENT FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 11			
; LENGTH: 795			
; TYPE: PRT			
; ORGANISM: Unknown			
; FEATURE:			
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells			
US-09-193-562D-11			
Alignment Scores:			
Pred. No.: 5,47e-28 Length: 902			
Score: 281.00 Matches: 59			
Percent Similarity: 78.02% Conservative: 12			
Best Local Similarity: 64.84% Mismatches: 18			
Query Match: 52.92% Indels: 2			
DB: 4 Gaps: 1			

US-09-193-562D-30

Alignment Scores:

Pred. No.:	1,61e-25	Length:	1000
Score:	262.00	Matches:	59
Percent Similarity:	63.72%	Conservative:	13
Best Local Similarity:	52.21%	Mismatches:	19
Query Match:	49.34%	Indels:	22
DB:	4	Gaps:	2

US-09-049-696-7 (1-289) x US-09-193-562D-30 (1-1000)

QY 11 ACTGATGATCTGAATGTCTGCTGACGAGTGGGAGCAACACTATAATGCGTGC 70

Db 404 Thrphgysersgluilelleuenuhraspglyuaaspyrglnlleserleucys 423

QY 71 TTTACGAGGTCACAAAGTNGTCCATCATCCACAGTCCGTTGGGCCCTCTCA 130

Db 424 Phegllylvallysglnserglythrvallelshlrlealeuaglproserla 443

QY 131 GCTCAGAACTAGAGAGCTGTCACAAATGACAGA----- 166

Db 444 Aspglnluleuglnthrleuserasmethrglyleuhslysglyhiscysttythr 463

QY 167 -----GGTTACAGACATATGCTTCAGAT 190

Db 464 GluserSeryserAlaglylyspheillePhecysglyhlsargpheyAlahlslys 483

QY 191 CAGTTCAGAACATGGCCTCATGTCTTGGGCCCTTCTCATGAGAAATGAGACT 250

Db 484 Asnile-----AsnglyleuileaspalapheserArglleSererArgserglyser 501

QY 251 GTCCTCAGCCCTCCATCCAGCTGAGTAAGGAGTAA 289

Db 502 lleserGlnAlaLeuGlnleucluserSerythrleu 514

RESULT 8

US-09-193-562D-32

Sequence 32, Application US/09193562D

Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedict U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

FILE REFERENCE: 18617.0052

CURRENT APPLICATION NUMBER: US/09/193.562D

CURRENT FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065.922

PRIOR FILING DATE: 1997-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 32

LENGTH: 943

TYPE: PRT

ORGANISM: Homo sapiens

US-09-193-562D-32

Alignment Scores:

Pred. No.:	7.7e-20	Length:	943
Score:	218.00	Matches:	43
Percent Similarity:	66.67%	Conservative:	17
Best Local Similarity:	47.78%	Mismatches:	30
Query Match:	41.05%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-7 (1-289) x US-09-193-562D-32 (1-943)

QY 17 GCATGTGAATGTCTGCTGACGATGGGAGCAACACTATAATGCGTTCATAC 76

Db 412 GlyserValmetileleuValthrserglyaspasplysleuGlyAsnlySleuPro 431

QY 77 GAGGTCAACAAGTNGTCCATCATCCACAGTCCGTTGGGCCCTCTCATGAGTAA 136

Db 432 ThrValleuserSerglyserThrillehlserrlealeuGlySerSerAlaIlePro 451

QY 137 GAACTAGAGAGCTGTCCAAATGACAGAGTTTACAGACATATGCTTCAGATCAAGTT 196

Db 452 AsnleuglnluleuserArgleuThrGlyleuylsPhePheValProAspIleSer 471

QY 197 CAGAACAAATGGCCCTCATGTATGCTTTGGGCCCTTTCATCAGAAATGAGCTGTCT 256

Db 472 AsnserAsnserMetileaspalapheserArgyleSerSerglythrGlyAspIlePhe 491

QY 257 CAGGCTCCATCCAGCTTGCAGTAAGGA 286

Db 492 GlnGlnhlsllleGlnleuGlnserThrGly 501

RESULT 9

US-08-477-396A-4

Sequence 4, Application US/08477396A

Patent No. 5872235

GENERAL INFORMATION:

APPLICANT: Chen, Ian Bo

APPLICANT: Bao, Shideng

APPLICANT: Liu, Yuan

TITLE OF INVENTION: A NOVEL TUMOR MARKER AND NOVEL METHOD OF

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESS: Weingarten, Schurgin, Gagnebin & Hayes

STREET: Ten Post Office Square

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477.396A

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/146,488

FILING DATE: 29-OCT-1993

APPLICATION NUMBER: US 08/448,388

FILING DATE: 28-MAY-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/12502

FILING DATE: 31-OCT-1994

ATTORNEY/AGENT INFORMATION:

NAME: Heline, Holliday C.

REGISTRATION NUMBER: 34,346

REFERENCE/DOCKET NUMBER: DFCI-333BX

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 542-2290

TELEFAX: (617) 451-0313

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 777 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-477-396A-4

Alignment Scores:

Pred. No.:	0.845	Length:	777
Score:	70.50	Matches:	25
Percent Similarity:	48.04%	Conservative:	24
Best Local Similarity:	24.51%	Mismatches:	38
Query Match:	13.28%	Indels:	15
DB:	2	Gaps:	4

US-09-049-696-7 (1-289) x US-08-477-396A-4 (1-777)

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QY 14 GATGATCTGAAATTTGCTGCTGACGAGTGGGAGACAACTATTAAGTGGTGC--- 70
DB 331 GlnGlysnrhlrlleguilegIyCysaspGlyAspserIlethrValasnGlyIleLys 350
QY 71 -----TTTAAAGAGGCTCAAAAGATNGTGCATTCACACACATC-----GCT 115
DB 351 MetValasnLysAspIleValThrAsnAsnGlyValIleHisLeuIleAspGlnVal 370
QY 116 TTGGGGCCCTCTGACGCTCAAGACATGCGCTTCACAAATGACAGAGGTTTACAG 175
DB 371 LeuIleProaspserAlaLysGlnValIleGlnLeuAla-----GlyLysGlnGln 387
QY 176 ACATATGCTTCAGATCAAGTTCAAGAACATGCGCTCATTTGATGCT----- 220
DB 388 ThrThrPheThrAspLeuValAlaGlnLeuGlyLeuAlaSerAlaLeuArgProaspGly 407
QY 221 ---TTTGGGGCCCTTTTCATCAGGAATGAGAGCTGTCTCTCAGCGCTTCACACGTTGAG 277
DB 408 GlutThrLeuLeuAlaProValAsnAsnAlaPheSerAspAspThrLeuSerMetasp 427
278 AGTAAG 283
DB 428 GlnArg 429

RESULT 10
US-08-477-396A-2
; Sequence 2, Application US/08477396A
; Patent No. 5872235
; GENERAL INFORMATION:
; APPLICANT: Chen, Ian Bo
; APPLICANT: Bao, Shideng
; APPLICANT: Liu, Yuan
; TITLE OF INVENTION: A NOVEL TUMOR MARKER AND NOVEL METHOD OF
; TITLE OF INVENTION: ISOLATING SAME
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weingarten, Schurgin, Gagneblin & Hayes
; STREET: Ten Post Office Square
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,396A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/146,488
; FILING DATE: 29-OCT-1993
; APPLICATION NUMBER: US 08/448,388
; FILING DATE: 28-MAY-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/12502
; FILING DATE: 31-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Heine, Holliday C.
; REGISTRATION NUMBER: 34,346
; REFERENCE/DOCKET NUMBER: 34,346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-2290
; TELEFAX: (617) 451-0313
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 212 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-477-396A-2

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Alignment Scores:
Pred. No.: 1 05 Length: 212
Score: 68.50 Matches: 25
Percent Similarity: 48.00% Conservative: 23
Best Local Similarity: 25.00% Mismatches: 37
Query Match: 12.90% Indels: 15
DB: 2 Gaps: 4

US-09-049-696-7 (1-289) x US-08-477-396A-2 (1-212)
QY 14 GATGATCTGAAATTTGCTGCTGACGAGTGGGAGACAACTATTAAGTGGTGC--- 70
DB 115 GlnGlysnrhlrlleguilegIyCysaspGlyAspserIlethrValasnGlyIleLys 134
QY 71 -----TTTAAAGAGGCTCAAAAGATNGTGCATTCACACACATC-----GCT 115
DB 135 MetValasnLysAspIleValThrAsnAsnGlyValIleHisLeuIleAspGlnVal 154
QY 116 TTGGGGCCCTCTGACGCTCAAGACATGCGCTTCACAAATGACAGAGGTTTACAG 175
DB 155 LeuIleProaspserAlaLysGlnValIleGlnLeuAla-----GlyLysGlnGln 171
QY 176 ACATATGCTTCAGATCAAGTTCAAGAACATGCGCTCATTTGATGCT----- 220
DB 172 ThrThrPheThrAspLeuValAlaGlnLeuGlyLeuAlaSerAlaLeuArgProaspGly 191
QY 221 ---TTTGGGGCCCTTTTCATCAGGAATGAGAGCTGTCTCTCAGCGCTTCACACGTTGAG 277
DB 192 GlutThrLeuLeuAlaProValAsnAsnAlaPheSerAspAspThrLeuSerMetasp 211

RESULT 11
US-09-123-492A-1
; Sequence 1, Application US/09123492A
; Patent No. 6197940
; GENERAL INFORMATION:
; APPLICANT: KLINEFELTER, Gary
; TITLE OF INVENTION: METHOD FOR EVALUATING AND AFFECTING MALE FERTILITY
; TITLE OF INVENTION: KLINEFELTER-1B
; FILE REFERENCE: KLINEFELTER-1B
; CURRENT APPLICATION NUMBER: US/09/123,492A
; CURRENT FILING DATE: 1998-07-28
; PRIOR APPLICATION NUMBER: 08/593,677
; PRIOR FILING DATE: 1997-01-29
; PRIOR APPLICATION NUMBER: PCT/US97/01725
; PRIOR FILING DATE: 1997-01-29
; PRIOR APPLICATION NUMBER: 60/082,753
; PRIOR FILING DATE: 1998-04-23
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Human DJ-1
US-09-123-492A-1

Alignment Scores:
Pred. No.: 1 84 Length: 189
Score: 66.50 Matches: 22
Percent Similarity: 43.53% Conservative: 15
Best Local Similarity: 25.88% Mismatches: 27
Query Match: 12.52% Indels: 21
DB: 4 Gaps: 3

US-09-049-696-7 (1-289) x US-09-123-492A-1 (1-189)
QY 23 GAATGTGCTGCTGACGAGTGGG-----GAAAGACAACTACT 58
DB 68 AspValValValLeuProGlyLysLeuGlyAlaGlnAsnLeuSerGlnSerAlaAla 87
QY 59 ATAAGTGGGCTTTTAAAGAGGCTCAAAAGATNGTGCATTCACACACATCAGCTTGG 118
DB 88 ValLysGlnLeuLeuLysGlnGlnGlnValAsnArgLysGlyLeuIleAlaIleCysAla 107

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MOLECULE TYPE: protein
US-08-426-627-6

Alignment Scores:
Pred. No.: 2.84 Length: 836
Score: 66.50 Matches: 25
Percent Similarity: 47.47% Conservative: 22
Best Local Similarity: 25.25% Mismatches: 37
Query Match: 12.52% Indels: 15
DB: 1 Gaps: 4

US-09-049-696-7 (1-289) x US-08-426-627-6 (1-836)
QY 14 GATGAGCTCAAAATTGCTGCTGCTACGCGATGGGGAACAACACTATAAGTGGTGC--- 70
Db ::::: ::::: ::::: ::::: :::::
Db 325 GlnGlysnThrIleGlnIleGlyCysAspGlyAspSerIleThrValaGnglyIleLys 344
QY 71 -----TTTACGAGGCTCAACCAAGATGTCCTCCATCCATCCACAGTC-----GCT 115
Db MethylasnlYslYsAspIleValaIthrAsnsmGlyValIleHslleuIleAspGlnVal 364
QY 116 TTGGGCCCCCTCTGCGAGCTCAAGAACTAGAGAGGCTGTCCAAATAGCAGGAGGTTTACAG 175
Db ||| ||| ::::: ::::: ::::: ||| |||
Db 365 LeuIleProAspSerAlaIylGlnValIleGluLeuIle-----GlyLysGlnGln 381
QY 176 ACATATGCTTCAGATCAAGTTTCAGACAAATGGCCTCATTTGATGCT----- 220
Db ||| ::::: ||| ||| ||| |||
Db 382 ThrThrPheThrAspLeuValaIaGlnLeuGlyLeuAlaSerAlaLeuArgProAspGly 401
QY 221 ---TTTGGGCCCCCTTCATCATCAAGAAATGAGAGCTGCTCTCAGCGCTCCATCCAGCTT 274
Db ::::: ||::: ||||| ||| ||| |||
Db 402 GluTrpThrLeuLeuAlaProValaIasnAlaPheSerAspAspIthrLeuSerMet 420

RESULT 15
US-08-426-627-23
Sequence 23 Application US/08426627
Patent No. 5756664
GENERAL INFORMATION:
APPLICANT: Amann, Egon
APPLICANT: Otawara-Hamamoto, Yoko
APPLICANT: Kikuno, Reiko
APPLICANT: Takeshita, Sunao
APPLICANT: Tezuka, Kenichi
TITLE OF INVENTION: No. 5756664el Protein with Bone Formation
TITLE OF INVENTION: Ability and Process for Its Production.
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSER: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,627
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/036,841
FILING DATE: 25-MAR-1993
APPLICATION NUMBER: JP 4-71501
FILING DATE: 27-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Hammond, Alan W.
REGISTRATION NUMBER: 35,178
REFERENCE/DOCKET NUMBER: 02481-1285-00000
TELECOMMUNICATION INFORMATION:

```


GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 ; Search time 8.25149 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-10

Perfect score: 229

Sequence: 1 GGCACAGTGCCTGACAGC.....AACCTTGACCTGACCTCA 229

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_MA:*

- 1: /cgn2_6/p/ptodata/2/1na/5A.COMB.seq.*
- 2: /cgn2_6/p/ptodata/2/1na/5B.COMB.seq.*
- 3: /cgn2_6/p/ptodata/2/1na/6A.COMB.seq.*
- 4: /cgn2_6/p/ptodata/2/1na/6B.COMB.seq.*
- 5: /cgn2_6/p/ptodata/2/1na/PCPUS.COMB.seq.*
- 6: /cgn2_6/p/ptodata/2/1na/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match Length	DB ID	Description
1	229	100.0	3007 4	US-09-193-562D-27 Sequence 27, Appl
2	63.8	27.9	3317 4	US-09-193-562D-1 Sequence 1, Appl
3	53.6	23.4	3022 4	US-09-193-562D-33 Sequence 33, Appl
4	52.6	23.0	3418 4	US-09-193-562D-29 Sequence 29, Appl
5	34.2	14.9	2970 4	US-09-193-562D-31 Sequence 31, Appl
6	31.6	13.8	4771 3	US-08-840-062-3 Sequence 3, Appl
7	29.6	12.9	1437 6	5187077-16 Patent No. 5187077
8	29.6	12.9	1437 6	5427925-14 Patent No. 5427925
9	29.6	12.7	1123 3	US-09-188-930-28 Sequence 28, Appl
10	29.6	12.7	1123 3	US-09-188-930-203 Sequence 203, Appl
11	27.9	11.8	1029 4	US-09-116-498-5 Sequence 5, Appl
12	26.6	11.6	1920 4	US-08-186-222-1 Sequence 1, Appl
13	26.4	11.5	2830 1	US-07-882-292-1 Sequence 1, Appl
14	26.4	11.5	2830 2	US-08-331-644-1 Sequence 1, Appl
15	26.4	11.5	2830 5	PCT-US93-04102-1 Sequence 1, Appl
16	26.2	11.4	2061 3	US-09-020-033-1 Sequence 1, Appl
17	26.2	11.4	688 4	US-09-027-381-1 Sequence 1, Appl
18	26.2	11.4	688 4	US-09-477-071-1 Sequence 1, Appl
19	26.2	11.4	920 4	US-08-860-174A-3 Sequence 3, Appl
20	26.2	11.4	920 4	US-09-171-025-24 Sequence 24, Appl
21	26.2	11.4	999 2	US-08-894-922A-6 Sequence 6, Appl
22	26.2	11.4	999 4	US-08-860-174A-6 Sequence 25, Appl
23	26.2	11.4	999 4	US-09-171-025-25 Sequence 25, Appl
24	26.2	11.4	3267 3	US-08-633-768A-3 Sequence 3, Appl
25	26.2	11.4	3664 1	US-08-148-675A-1 Sequence 1, Appl
26	26.2	11.4	5438 4	US-08-456-200B-5 Sequence 5, Appl
27	26.2	11.4	246240 2	US-08-724-394A-20 Sequence 20, Appl

28	26	11.4	246240 2	US-08-724-394A-21 Sequence 21, Appl
29	26	11.4	246240 2	US-08-724-394A-22 Sequence 22, Appl
30	25.8	11.3	661 4	US-08-998-416-1100 Sequence 1100, Appl
31	25.8	11.3	683 4	US-09-328-111-704 Sequence 704, Appl
32	25.8	11.3	10348 2	US-08-457-273B-41 Sequence 41, Appl
33	25.8	11.3	10348 3	US-08-556-419-13 Sequence 13, Appl
34	25.8	11.3	10348 4	US-09-041-886-14 Sequence 14, Appl
35	25.8	11.3	10366 1	US-08-246-982A-5 Sequence 5, Appl
36	25.8	11.3	10366 1	US-08-453-265-5 Sequence 5, Appl
37	25.6	11.2	1088 1	US-08-726-525-3 Sequence 3, Appl
38	25.6	11.2	1088 1	US-08-487-942-3 Sequence 3, Appl
39	25.6	11.2	1088 2	US-08-726-036A-3 Sequence 3, Appl
40	25.6	11.2	1088 4	US-09-083-516-3 Sequence 3, Appl
41	25.6	11.2	3066 4	US-09-086-912-1 Sequence 1, Appl
42	25.4	11.1	1037 4	US-09-116-498-3 Sequence 3, Appl
43	25.4	11.1	1468 3	US-09-215-131-2 Sequence 2, Appl
44	25.4	11.1	1468 3	US-09-222-734-2 Sequence 2, Appl
45	25.4	11.1	2268 2	US-08-890-853-1 Sequence 1, Appl

ALIGNMENTS

```
RESULT 1
US-09-193-562D-27
: Sequence 27, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: FILE REFERENCE: 18617.0052
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 27
: LENGTH: 3007
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-193-562D-27

Query Match      100.0%; Score 229; DB 4; Length 3007;
Best Local Similarity 100.0%; Pred. No. 1.6e-74;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCACAGTGCCTGACAGCAGCCGCGGAAGAGCACTTTGTTCTATCAGCTGGACA 60
    |||
DB 1556 GGCACAGTGCCTGACAGCAGCCGCGGAAGAGCACTTTGTTCTATCAGCTGGACA 1615

QY 61 ACGCAGCTCCCAAAATCTCTGCGGATCCAGTGAGCAAGCAAGGCTGTTGTA 120
    |||
DB 1616 ACGCAGCTCCCAAAATCTCTGCGGATCCAGTGAGCAAGCAAGGCTGTTGTA 1675

QY 121 GTGACAAAACACCAAAATGCGTCTCAATCCAGGCAATTCGTAAGCTGGCACT 180
    |||
DB 1676 GTGACAAAACACCAAAATGCGTCTCAATCCAGGCAATTCGTAAGCTGGCACT 1735

QY 181 TGGAAATACAGTCTGCAAGCAAGCTGCAAACTTGACCTGAGCTGCA 229
    |||
DB 1736 TGGAAATACAGTCTGCAAGCAAGCTGCAAACTTGACCTGAGCTGCA 1784

RESULT 2
US-09-193-562D-1
: Sequence 1, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: FILE REFERENCE: 18617.0052
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Query Match	12.9%;	Score 29.6;	DB 6;	Length 1437;	
Best Local Similarity	61.8%;	Pred. No. 0.38;			
Matches 47:	Conservative	0;	Mismatches 29;	Indels 0;	Gaps 0;
OY	59	CAACGACGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGACAAGCAAGGTGGCTTTG	118		
Db	1098	CAACCAAGCTTCCAAAGTTTCTCTGAGAGACAGCAAGACAGACATGATGTGACTCTG	1039		
OY	119	TAGTGGACAAAAACAC	134		
Db	1038	TAGGGGCTAGGACAC	1023		
RESULT 8					
5427925-14/c					
Patent No. 5427925					
APPLICANT: GEARING, DAVID P.; GOUGH, NICHOLAS M.; HILTON, DOUGLAS J.; KING, JULIE A.; METCALF, DONALD; NICE, EDOUARD C.; NICOLA, NICOS A.; SIMPSON, RICHARD J.; WILSON, TRACY A.					
TITLE OF INVENTION: RECOMBINANT METHOD FOR MAKING LEUKEMIA INHIBITOR FACTOR					
NUMBER OF SEQUENCES: 38					
CURRENT APPLICATION DATA:					
APPLICATION NUMBER: US/08/58,979					
FILING DATE: 06-MAY-1993					
APPLICATION NUMBER: 948,614					
FILING DATE: 22-SEP-1992					
APPLICATION NUMBER: 667,159					
FILING DATE: 11-MAR-1991					
SEQ ID NO.:14					
LENGTH: 1437					
5427925-14					
Query Match	12.9%;	Score 29.6;	DB 6;	Length 1437;	
Best Local Similarity	61.8%;	Pred. No. 0.38;			
Matches 47:	Conservative	0;	Mismatches 29;	Indels 0;	Gaps 0;
OY	59	CAACGACGCTCCCAAAATCCTTCTCTGGATCCCAAGTGGACAGACAAGGTGGCTTTG	118		
Db	1098	CAACCAAGCTTCCAAAGTTTCTCTGAGAGACAGCAAGACAGATGATGTGACTCTG	1039		
OY	119	TAGTGGACAAAAACAC	134		
Db	1038	TAGGGGCTAGGACAC	1023		
RESULT 9					
US-09-188-930-28					
Sequence 28, Application US/09188930A					
Patent No. 6150502					
GENERAL INFORMATION:					
APPLICANT: Watson, James D.					
APPLICANT: Strachan, Lorna					
APPLICANT: Sleeman, Matthew					
APPLICANT: Onrust, Rene					
APPLICANT: Murlson, James Greg					
TITLE OF INVENTION: Compositions Isolated From Skin Cells					
TITLE OF INVENTION: and Methods For Their Use					
FILE REFERENCE: 11000.1011c1					
CURRENT APPLICATION NUMBER: US/09/188,930A					
CURRENT FILING DATE: 1998-11-09					
NUMBER OF SEQ ID NOS: 348					
SOFTWARE: FastSeq For Windows Version 3.0					
SEQ ID NO 28					
LENGTH: 1123					
TYPE: DNA					
ORGANISM: Rat					
US-09-188-930-28					
Query Match	12.7%;	Score 29;	DB 3;	Length 1123;	
Best Local Similarity	63.8%;	Pred. No. 0.55;			
Matches 44:	Conservative	0;	Mismatches 25;	Indels 0;	Gaps 0;

QY 127 AAAACACCAAAATGGCTACTCTCAAAATCCAGCATTCCTAAGTTGGCAGTTGGAAA 186
DB 767 AACAAAGGAAATCATCATCATCCAGCAACATGCAGTCTCTAAGTTGGCAAAGAGA 826
QY 187 TACAGTCTG 195
DB 827 TGAAGTCTG 835

RESULT 10

US-09-188-930-203
; Sequence 203, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 203
; LENGTH: 1123
; TYPE: DNA
; ORGANISM: Rat
US-09-188-930-203

Query Match
Best Local Similarity 63.8%; Score 29; DB 3; Length 1123;
Matches 44; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 127 AAAACACCAAAATGGCTACTCTCAAAATCCAGCATTCCTAAGTTGGCAGTTGGAAA 186
DB 767 AACAAAGGAAATCATCATCATCCAGCAACATGCAGTCTCTAAGTTGGCAAAGAGA 826
QY 187 TACAGTCTG 195
DB 827 TGAAGTCTG 835

RESULT 11

US-09-116-498-5/C
; Sequence 5, Application US/09116498
; Patent No. 6251582
; GENERAL INFORMATION:

APPLICANT: Liltman, Dan R.
Deng, Hongkui

Unutmaz, Derya

Ramanul, Vineet N.K.

TITLE OF INVENTION: NOVEL ALTERNATIVE G-COUPLED RECEPTORS

ASSOCIATED WITH RETROVIRAL ENTRY INTO CELLS, METHODS OF

IDENTIFYING THE SAME, AND DIAGNOSTIC AND THERAPEUTIC USES

THEREOF

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESSEE: David A. Jackson, Esq.

STREET: 411 Hackensack Ave, Continental Plaza, 4th

Floor

CITY: Hackensack

STATE: New Jersey

COUNTRY: USA

ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/116,498
FILING DATE: 16-Jul-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:

NAME: Jackson Esq., David A.

REGISTRATION NUMBER: 26,742

REFERENCE/DOCKET NUMBER: 1049-1-009

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-487-5800

TELEFAX: 201-343-1684

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 1029 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: pigtail macaque

SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Query Match
Best Local Similarity 49.6%; Score 27; DB 4; Length 1029;
Matches 69; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 63 GCAGCTCCCAATCTCTTCTGGGATCCCATGTGACACAAACAGTGGCTTTGACT 122
DB 613 GCAGTGGCAAGAACCCAGTGTCTATGGTGGCAAGACCGAGTGAATCTCCT 554
QY 123 GGACAAACACCAAAATGGCTACTCTCAAAATCCAGCATTCCTAAGTTGGCAGTTG 182
DB 553 TGTGATGATATACCAATATAGCTGTGTCAGATTAAAGACATTGCCATATATTGGG 494
QY 183 GAAATACAGTCTGCAAGCA 201
DB 493 GCAAGGAACACGACAGGGA 475

RESULT 12

US-08-186-222-1
; Sequence 1, Application US/08186222
; Patent No. 5559007
; GENERAL INFORMATION:

APPLICANT: Surli, Bruno

APPLICANT: Schmitz, Albert

TITLE OF INVENTION: Bacterial Vectors

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/186,222

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/672,205

FILING DATE: 19-MAR-1991

APPLICATION NUMBER: GB 9006400.7

FILING DATE: 22-MAR-1990

ATTORNEY/AGENT INFORMATION:

NAME: Villamilzar, Joann

REGISTRATION NUMBER: 30,598

REFERENCE/DOCKET NUMBER: 4-17994/A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (914)785-7121
TELEFAX: (914)347-5769
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1920 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Lactococcus lactis IM0230
INDIVIDUAL ISOLATE: Major Secretion Product (MSP) Gene
IMMEDIATE SOURCE:
CLONE: pUCRS
FEATURE:
NAME/KEY: CDS
LOCATION: 411..1793
-08-186-222-1

Query Match 11.6%; Score 26.6; DB 1; Length 1920;
Best Local Similarity 56.2%; Pred. No. 5.6;
Matches 50; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 128 AAAACACCAATATGCGCTACCTCCAAATCCAGCATGCTAAGTTGGCACTTGAAT 187
DB 631 AATCGCTTAATTCGAAAGCCGACGTAAGCCTTAATGCTCAAAATGCTACTTGAACG 690

QY 188 ACAGTCTGCAAGCAAGCTCACAACCTTG 216
DB 691 AAGTATCAAGAGCACTACAAAGACATTG 719

RESULT 13
US-07-882-292-1/C
Sequence 1, Application US/07882292
Patent No. 5324638
GENERAL INFORMATION:
APPLICANT: Tao, Wufan
APPLICANT: Lai, Eseng
TITLE OF INVENTION: BRAIN TRANSCRIPTION FACTOR, NUCLEIC ACIDS
TITLE OF INVENTION: ENCODING SAME AND USES THEREOF
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: John P. White
STREET: C/O Cooper and Dunham, 30 Rockefeller
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10012

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/882,292
FILING DATE: 19920513
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41472
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-977-9550
TELEFAX: 212-664-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2830 base pairs
TYPE: NUCLEIC ACID

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: N
FEATURE:
NAME/KEY: CDS
LOCATION: 443..1882
OTHER INFORMATION:
FEATURE:
NAME/KEY: misc_feature
LOCATION: 926..1255
OTHER INFORMATION: /note="nucleotide sequence encoding DNA
OTHER INFORMATION: binding domain homology"
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1883..1885
OTHER INFORMATION: /note="translation termination codon"
US-07-882-292-1

Query Match 11.5%; Score 26.4; DB 1; Length 2830;
Best Local Similarity 55.4%; Pred. No. 8.1;
Matches 51; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 101 AGACCAAGTGGCTTGTGAGTGACAAACCAACCAATGCGCTACCTCCAAATCCAG 160
DB 2599 AAAATTAAGTACCTGTAGTACACATTCATGAAATATATACACACAACTGAAG 2540

QY 161 GCATTGCTAAGTTGGCACTTGGAATACAGT 192
DB 2539 GCAATCCTTAATTTGTCTCTTCGATTCAT 2508

RESULT 14
US-08-331-644-1/C
Sequence 1, Application US/08331644
Patent No. 5976872
GENERAL INFORMATION:
APPLICANT: Tao, Wufan
APPLICANT: Lai, Eseng
TITLE OF INVENTION: BRAIN TRANSCRIPTION FACTOR, NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING SAME AND USES THEREOF
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/331,644
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/882,292
FILING DATE: 13-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41472-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2830 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: N
ANTI-SENSE: N
FEATURE:
NAME/KEY: CDS
LOCATION: 443..1882
OTHER INFORMATION:
FEATURE:
NAME/KEY: misc_feature
LOCATION: 926..1255
OTHER INFORMATION: /note="nucleotide sequence encoding DNA binding domain"
OTHER INFORMATION: homology
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1883..1885
OTHER INFORMATION: /note="translation termination codon"
OTHER INFORMATION: codon
08-331-644-1
Query Match 11.5%; Score 26.4; DB 2; Length 2830;
Best Local Similarity 55.4%; Pred. No. 8.1;
Matches 51; Conservative 0; Mismatches 41; Indels 0; Gaps 0;
QY 101 AGAGCAAGGTGGCTTGTAGTGACAAACCAAAATGGCTACCTCCAAATCCAG 160
DB 2599 AAAAATRAAGTGCCTGTAGTGACCAACATCGAAATATACACACAAACGAG 2540
QY 161 GCATTGCTAAGTTGGCCTTGGAATACAGT 192
DB 2539 GCAATCCTTAATTTGTCTTGGATTCAT 2508
RESULT 15
PCT-US93-04102-1/C
; Sequence 1, Application .PC/TUS9304102
; GENERAL INFORMATION:
; APPLICANT: Tao, Wufan
; APPLICANT: Lai, Eseng
; TITLE OF INVENTION: BRAIN TRANSCRIPTION FACTOR, NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING SAME AND USES THEREOF
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White
; STREET: c/o Cooper and Dunham, 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/04102
; FILING DATE: 19930430
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/882,292
; FILING DATE: 13-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 41472A-PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-977-9550
; TELEFAX: 212-664-0525
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:

LENGTH: 2830 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: N
ANTI-SENSE: N
FEATURE:
NAME/KEY: CDS
LOCATION: 443..1882
OTHER INFORMATION:
FEATURE:
NAME/KEY: misc_feature
LOCATION: 926..1255
OTHER INFORMATION: /note="nucleotide sequence encoding DNA binding domain homology"
OTHER INFORMATION: binding domain homology
FEATURE:
NAME/KEY: misc_signal
LOCATION: 1883..1885
OTHER INFORMATION: /note="translation termination codon"
PCT-US93-04102-1
Query Match 11.5%; Score 26.4; DB 5; Length 2830;
Best Local Similarity 55.4%; Pred. No. 8.1;
Matches 51; Conservative 0; Mismatches 41; Indels 0; Gaps 0;
QY 101 AGAGCAAGGTGGCTTGTAGTGACAAACCAAAATGGCTACCTCCAAATCCAG 160
DB 2599 AAAAATRAAGTGCCTGTAGTGACCAACATCGAAATATACACACAAACGAG 2540
QY 161 GCATTGCTAAGTTGGCCTTGGAATACAGT 192
DB 2539 GCAATCCTTAATTTGTCTTGGATTCAT 2508

Search completed: October 17, 2002, 11:14:19
Job time: 17.2515 secs

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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 : Search time 6.43221 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-10
Perfect score: 432
Sequence: 1 GGCACAGTCGATCGTGACAGC.....AACCTTGACCTGACGTCTCA 229

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Xgapop 10.0, Ygapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DB=issued_patents_AA -CPMT=fastan -SUFFIX=rai -MINMATCH=0 -LOOPEXT=0
-LIST=45 -DOCALIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15
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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
- 3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
- 4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
- 5: /cgn2_6/ptodata/2/1aa/PTCUS.COMB.pep.*
- 6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	396	51.7	914	4	US-09-193-562D-28
2	396	50.7	795	4	US-09-193-562D-11
3	219	50.7	821	4	US-09-193-562D-12
4	219	50.7	905	4	US-09-193-562D-2
5	205	47.5	903	4	US-09-193-562D-46
6	190	44.0	902	4	US-09-193-562D-34
7	179	41.4	1000	4	US-09-193-562D-30
8	162	37.5	943	4	US-09-193-562D-32
9	162	35.5	241	1	US-08-235-838-11
10	67	15.5	241	1	US-08-465-473B-11
11	67	15.5	637	1	US-08-235-838-16
12	67	15.5	637	2	US-08-465-473B-16

13	66	15.3	635	4	US-08-506-296B-71	Sequence 71, Appl
14	65	15.0	119	2	US-08-800-198-2	Sequence 2, Appl
15	65	15.0	119	3	US-09-296-595-2	Sequence 2, Appl
16	65	15.0	240	3	US-08-800-198-8	Sequence 8, Appl
17	65	15.0	503	3	US-09-296-595-8	Sequence 8, Appl
18	65	15.0	240	3	US-08-724-281-2	Sequence 2, Appl
19	64.5	15.2	718	2	US-08-560-398-12	Sequence 12, Appl
20	63	14.6	288	5	PCT-US94-03744-4	Sequence 4, Appl
21	62	14.6	102	4	US-09-461-697-141	Sequence 441, App
22	62	14.4	117	2	US-08-290-552E-18	Sequence 18, Appl
23	62	14.4	117	4	US-08-525-539A-78	Sequence 78, Appl
24	62	14.4	117	5	PCT-US95-10053-15	Sequence 15, Appl
25	62	14.4	117	5	PCT-US96-09448-18	Sequence 18, Appl
26	62	14.4	136	4	US-08-525-539A-63	Sequence 63, Appl
27	62	14.4	172	4	US-08-858-257A-499	Sequence 499, App
28	61.5	14.2	94	1	US-08-450-945-63	Sequence 63, Appl
29	61.5	14.2	94	2	US-08-976-161-63	Sequence 63, Appl
30	61	14.1	92	2	US-08-341-843B-33	Sequence 33, Appl
31	61	14.1	92	2	US-08-427-497E-38	Sequence 38, Appl
32	61	14.1	210	4	US-09-227-357-195	Sequence 195, App
33	61	14.1	278	5	PCT-US94-03744-2	Sequence 2, Appl
34	61	14.1	1266	4	US-08-506-296B-4	Sequence 4, Appl
35	61	14.1	1430	3	US-09-008-172-2	Sequence 2, Appl
36	61	14.1	1430	4	US-09-210-361-6	Sequence 6, Appl
37	60.5	14.0	118	2	US-08-116-247-10	Sequence 10, Appl
38	60.5	14.3	231	3	US-08-771-098-2	Sequence 2, Appl
39	60.5	14.3	231	3	US-09-022-875-4	Sequence 4, Appl
40	60.5	14.3	231	4	US-09-354-040-2	Sequence 2, Appl
41	60	13.9	108	2	US-08-440-354-4	Sequence 4, Appl
42	60	13.9	108	2	US-08-463-087-4	Sequence 4, Appl
43	60	13.9	309	4	US-08-506-296B-60	Sequence 60, Appl
44	60	13.9	363	3	US-08-881-771A-4	Sequence 4, Appl
45	60	13.9	380	3	US-08-971-782-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-09-193-562D-28
Sequence 28, Application US/09193562D
Patent No. 6509857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 16617, 0052
CURRENT FILING DATE: US/09/193, 562D
PRIOR APPLICATION NUMBER: 1998-11-17
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 28
LENGTH: 914
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:

Pred. No.: 6.08e-41
Score: 396.00
Percent Similarity: 100.00%
Best local Similarity: 100.00%
Query Match: 91.67%
DB: 4
Gaps: 0

US-09-049-696-10 (1-229) x US-09-193-562D-28 (1-914)

QY 1 GGCACAGTCGATCGTGACAGCAGCGTGAAGACACTTGTTCCTATACCTGACACA 60
DB 504 GYTHrVallllevaIsPserThrValGlyLyspPhrLeuPheLeuIleThrTphr 523
QY 61 ACCGAGCCTCCCAATCTCTCTGCGATCCAGTGACAGCAAGTGGCTTGTGA 120
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Db 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnGlyGlyPheVal 543
Oy 121 GTGGCAAAAACACCAAAATGGCTACCTCCAAATCCAGCATGTGATGGACAT 180
Db 544 ValAspLysAsnThrLysMetAlaTrpLeuGlnIleProGlyIleAlaLysValGlyThr 563
Oy 181 TCGAATACAGTCTGCAACAGCTCACAAACCTTGACCTGACTGTC 228
Db 564 TrpLysTyrSerLeuGlnIleAspSerGlnThrLeuThrVal 579

RESULT 2
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: 1997-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 5.17e-19 Length: 795
Score: 219.00 Matches: 49
Percent Similarity: 69.51% Conservative: 8
Best Local Similarity: 59.76% Mismatches: 19
Query Match: 50.69% Indels: 6
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-193-562D-11 (1-795)
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Db 506 GLyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThr 525
Oy 61 ACGCAGCTCCCAAAATCTCTCTGAGATCCAGTGAGACAG-----AACCAAGTGCC 114
Db 526 IleGlnLysProGlnIleValLeuGlnAspProLysGlyLysTyrLysThrSerAsp 545
Oy 115 TTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGCATGTGTAAG 171
Db 546 PheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
Oy 172 GTTGGCACTTGAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACCTG 222
Db 566 ThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585
Oy 223 ACTGTC 228
Db 586 ThrVal 587

RESULT 3
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
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; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 5.21e-19 Length: 821
Score: 219.00 Matches: 49
Percent Similarity: 69.51% Conservative: 8
Best Local Similarity: 59.76% Mismatches: 19
Query Match: 50.69% Indels: 6
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-193-562D-12 (1-821)
Oy 1 GGCACAGTGAATCGTGGACAGCCGTGGAAAGACACTTGTTCATCACCCTGGACA 60
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Oy 61 ACGCAGCTCCCAAAATCTCTCTGAGATCCAGTGAGACAG-----AACCAAGTGCC 114
Db 526 IleGlnLysProGlnIleValLeuGlnAspProLysGlyLysTyrLysThrSerAsp 545
Oy 115 TTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGCATGTGTAAG 171
Db 546 PheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
Oy 172 GTTGGCACTTGAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACCTG 222
Db 566 ThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585
Oy 223 ACTGTC 228
Db 586 ThrVal 587

RESULT 4
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR FILING DATE: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5.35e-19 Length: 905
Score: 219.00 Matches: 49
Percent Similarity: 69.51% Conservative: 8
Best Local Similarity: 59.76% Mismatches: 19
Query Match: 50.69% Indels: 6
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-193-562D-2 (1-905)
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QY 130 AACACCAAAAGGCTACCTCCAAATCCAGCATTTGCTAAG----- 171
Db 76 SerSerAsnThrAlaTyrMetGlnLeuSerSerIleuThrSerGluAspSerAlaValTyr 95
QY 172 -----GTTGGCATTGGAATATACACTCTGCAGCAAGCTCACAA 210
Db 96 TyrCysAlaTyrGlyGlyAlaSerGlyAspTrpTyrPheAspValTrpGlyGlnGlyThr 115
QY 211 ACCTTGACCTTGACT 225
Db 116 ThrValThrValSer 120
RESULT 10
US-08-465-473B-11
; Sequence 11, Application US/08465473B
; Patent No. 5939531
GENERAL INFORMATION:
APPLICANT: Wels, Manfred S.
APPLICANT: Hynes, Nancy E.
APPLICANT: Harwerth, Ina-Maria
APPLICANT: Groner, Bernd
APPLICANT: Hardman, No. 5939531man
TITLE OF INVENTION: Recombinant Antibodies Specific for a
TITLE OF INVENTION: Growth Factor Receptor
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: NOVARTIS Corporation
STREET: 564 Morris Avenue
CITY: Summit
STATE: New Jersey
COUNTRY: USA
ZIP: 07901-6940
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,473B
FILING DATE: 5 June 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/828,832
FILING DATE: 31-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 91-810079.3
FILING DATE: 05-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Pfeiffer, Heena J.
REGISTRATION NUMBER: 22,640
REFERENCE/DOCKET NUMBER: 4-18518/A/CIP/CONT2
TELEPHONE: (908)522 6940
TELEFAX: (908)522 6955
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 241 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-473B-11
Alignment Scores:
Pred. No.: 2.63 Length: 241
Score: 67.00 Matches: 24
Percent Similarity: 37.14% Conservative: 15
Best Local Similarity: 22.86% Mismatches: 36
Query Match: 15.51% Indels: 30
DB: 2 Gaps: 5
US-09-049-696-10 (1-229) x US-08-465-473B-11 (1-241)

QY 1 GGCAAGTATGATCTGACAGCAGCCGTGGAAAGAC-----ACTTGTCTTATC 51
Db 16 GlyThrSerValIlySleuSerCylsAlaSerAspTyrThrPheThrSerTyrTyrMet 35
QY 52 ACCTGGACACGACGAG--CCTCCCAATCCTCTCTG-----GATCCAGT 96
Db 36 AsnTrpValIlySlnArgProGlyGlnGlyLeuIleuTrpIleGlyMetIleAspProSer 55
QY 97 GGACAGAG-----CAAGTGGCTTTGTGTGACGACAA 129
Db 56 AspSerGluThrGlnTyrAsnGlnMetPheLysAspIlyAlaIleuThrValAspLys 75
QY 130 AACACCAAAATGGCTCTCCAAATCCAGCATTTGCTAAG----- 171
Db 76 SerSerAsnThrAlaTyrMetGlnLeuSerSerIleuThrSerGluAspSerAlaValTyr 95
QY 172 -----GTTGGCATTGGAATATACACTCTGCAGCAAGCTCACAA 210
Db 96 TyrCysAlaTyrGlyGlyAlaSerGlyAspTrpTyrPheAspValTrpGlyGlnGlyThr 115
QY 211 ACCTTGACCTTGACT 225
Db 116 ThrValThrValSer 120
RESULT 11
US-08-235-838-16
; Sequence 16, Application US/08235838
; Patent No. 5571894
GENERAL INFORMATION:
APPLICANT: Wels, Manfred S.
APPLICANT: Hynes, Nancy E.
APPLICANT: Harwerth, Ina-Maria
APPLICANT: Groner, Bernd
APPLICANT: Hardman, No. 5571894man
TITLE OF INVENTION: Recombinant Antibodies Specific for a
TITLE OF INVENTION: Growth Factor Receptor
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/235,838
FILING DATE: TBA
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/828,832
FILING DATE: 31-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 91-810079.3
FILING DATE: 05-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: 4-18518/A/CIP/CONT
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 637 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-235-838-16
Alignment Scores:
Pred. No.: 3.42 Length: 637
Score: 67.00 Matches: 24
Percent Similarity: 37.14% Conservative: 15
Best Local Similarity: 22.86% Mismatches: 36
Query Match: 15.51% Indels: 30
Gaps: 5
US-09-049-696-10 (1-229) x US-08-235-838-16 (1-637)
QY 1 GGCACAGTATCGTGACAGACACCGTGGAAGAC-----ACTTGTTCTTATC 51
Db 47 GYTHSerVallyLeuSerCysLysAlaSerAspTyrThrPheThrSerTyrTrpMet 66
QY 52 ACCTGGACACGACG---CCTCCCAAAATCCTCTCTG-----GATCCAGT 96
Db 67 AsnTyrVallyLysGlnArgProGlyGlnGlyLeuGluTrpIleGlyMetIleAspProser 86
97 GGACAGAG-----CAAGTGCGTTGTAGTGACAAA 129
87 AspSerGluThrGlnTyrAsnGlnMetPheLysAspLysAlaIleuThrValAspLys 106
QY 130 AACACCAAAATGGCTTACTCCAAATCCAGGCAATGCTAG----- 171
Db 107 SerSerAsnThrAlaTyrMetGlnLeuSerSerLeuThrSerGluAspSerAlaValTyr 126
QY 172 -----GTTGGCACTTGGAATATACAGTCTGCAGACCAAGCTCACAA 210
Db 127 TyrCysAlaLysGlyGlyAlaSerGlyAspTyrTyrPheAspValTrpGlyGlnGlyThr 146
QY 211 ACCTGACCTGACT 225
Db 147 ThrValThrValSer 151
RESULT 12
US-08-465-473B-16
Sequence 16, Application US/08465473B
Patent No. 5939531
GENERAL INFORMATION:
APPLICANT: Wels, Winfried S.
APPLICANT: Hynes, Nancy E.
APPLICANT: Harwerth, Ina-Maria
APPLICANT: Groner, Bernd
APPLICANT: Hardman, No. 5939531man
APPLICANT: Zwickl, Markus
TITLE OF INVENTION: Recombinant Antibodies Specific for a
NUMBER OF INVENTIONS: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: NOVARTIS Corporation
STREET: 564 Morris Avenue
CITY: Summit
STATE: New Jersey
COUNTRY: USA
ZIP: 07901-6940
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,473B
FILING DATE: 5 June 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/828,832
FILING DATE: 31-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 91-010079.3
FILING DATE: 05-FEB-1991

ATTORNEY/AGENT INFORMATION:
NAME: Pfeiffer, Henna J.
REGISTRATION NUMBER: 22,640
REFERENCE/DOCKET NUMBER: 4-18518/A/CIP/CONT2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908)522 6940
TELEFAX: (908)522 6955
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 637 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-473B-16
Alignment Scores:
Pred. No.: 3.42 Length: 637
Score: 67.00 Matches: 24
Percent Similarity: 37.14% Conservative: 15
Best Local Similarity: 22.86% Mismatches: 36
Query Match: 15.51% Indels: 30
Gaps: 5
US-09-049-696-10 (1-229) x US-08-465-473B-16 (1-637)
QY 1 GGCACAGTATCGTGACAGACACCGTGGAAGAC-----ACTTGTTCTTATC 51
Db 47 GYTHSerVallyLeuSerCysLysAlaSerAspTyrThrPheThrSerTyrTrpMet 66
QY 52 ACCTGGACACGACG---CCTCCCAAAATCCTCTCTG-----GATCCAGT 96
Db 67 AsnTyrVallyLysGlnArgProGlyGlnGlyLeuGluTrpIleGlyMetIleAspProser 86
97 GGACAGAG-----CAAGTGCGTTGTAGTGACAAA 129
87 AspSerGluThrGlnTyrAsnGlnMetPheLysAspLysAlaIleuThrValAspLys 106
QY 130 AACACCAAAATGGCTTACTCCAAATCCAGGCAATGCTAG----- 171
Db 107 SerSerAsnThrAlaTyrMetGlnLeuSerSerLeuThrSerGluAspSerAlaValTyr 126
QY 172 -----GTTGGCACTTGGAATATACAGTCTGCAGACCAAGCTCACAA 210
Db 127 TyrCysAlaLysGlyGlyAlaSerGlyAspTyrTyrPheAspValTrpGlyGlnGlyThr 146
QY 211 ACCTGACCTGACT 225
Db 147 ThrValThrValSer 151
RESULT 13
US-08-506-296B-71
Sequence 71, Application US/08506296B
Patent No. 6313265
GENERAL INFORMATION:
APPLICANT: Phillips, Greg
APPLICANT: Cunningham, Bruce A.
APPLICANT: Crossin, Kathryn L.
TITLE OF INVENTION: NEURITE OUTGROWTH-PROMOTING POLYPEPTIDES
CONTAINING FIBROBLAST TYPE III REPEATS AND METHODS OF USE
NUMBER OF SEQUENCES: 77
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute
STREET: 10550 No. 6313265th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: U.S.
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/506,296B
FILING DATE: 24-JUL-1995
CLASSIFICATION: 51A
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: TSRI 488.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 635 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
-08-506-296B-71

Alignment Scores:
Pred. No.: 4.54 Length: 635
Score: 56.00 Matches: 24
Percent Similarity: 36.90% Conservative: 7
Best Local Similarity: 28.57% Mismatches: 23
Query Match: 15.28% Indels: 30
DB: 4 Gaps: 4

US-09-049-696-10 (1-229) x US-08-506-296B-71 (1-635)

QY 12 CGTGACAGCAGCGTGGAGAGACCTTTGT----- 44
Db 224 ArglyserHsIleHsIleHsIleValProAlaAsnThrThrsAlaIle 243
QY 45 -----TCTTATCACTGGACAAAGCGCTCCCAATCCT 80
Db 244 LeuSerGlyLeuArgProGlySerSerThyHisValGluValAlaPheAsnGlyArg 263
QY 81 TCTGTGGG-----TCCAGTGGACAGAGAGGTGGCTTTGAGTGGACAAAACAC 134
Db 264 GlyLeuGlyProAlaSerGluThrPheSerThr----- 275
QY 135 CAAATGGCCCTACCTCAATCCAGGCAATGCTAAGGTTGGCACTTGGAAATACAGTCT 194
Db 276 ProGluGlyValProGlyHisProGlu-----AlaLeuHisLeuGluCysGlnSer 292
QY 195 GCAAGCAAGCTC 206
Db 293 AspThrSerLeu 296

RESULT 14
US-08-800-198-2
Sequence 2, Application US/08800198
Patent No. 5942602
GENERAL INFORMATION:
APPLICANT: WELS, WINFRIED S.
APPLICANT: SCHMIDT, MATHIAS
APPLICANT: VAKALOPOULOU, EVANGELIA
TITLE OF INVENTION: GROWTH FACTOR RECEPTOR ANTIBODIES
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: MILLER, WHITE, ZELANO & BRANIGAN, P.C.
STREET: 2200 CLARENDON BLVD. SUITE 1400
CITY: ARLINGTON
STATE: VA
COUNTRY: US
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/800,198
FILING DATE: 13-FEB-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: HAMLET-KING, DIANA
REGISTRATION NUMBER: 33,302
REFERENCE/DOCKET NUMBER: SCH 1576
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-243-6333
TELEFAX: 703-243-6410
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
US-08-800-198-2

Alignment Scores:
Pred. No.: 3.86 Length: 119
Score: 65.00 Matches: 23
Percent Similarity: 43.18% Conservative: 15
Best Local Similarity: 26.14% Mismatches: 26
Query Match: 15.05% Indels: 24
DB: 2 Gaps: 5

US-09-049-696-10 (1-229) x US-08-800-198-2 (1-119)

QY 37 ACTTGTTCTTATCAGCTGGACAGCAG---CCTCCCAATCCTTCTGTG----- 87
Db 30 ThrAsnTyrTrpMetHisTrpValThrGlnArgProGlyGlnValLeuValTrpIleGly 49
QY 88 -----GATCCAGT-----GGACAGAG-----CAAGGTGCG 114
Db 50 TyrThrAsnProAlaSerThrGlyTyrThrAspPheAsnGlnIleHisAspLeuAlaThr 69
QY 115 TTGTAGTGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAAT----- 165
Db 70 LeuThrAlaAspIleSerSerSerThrAlaTyrMetGlnLeuSerGlyLeuThrSerGlu 89
QY 166 -----GCTAAGTGTGGCACTTGGAAATACAGTCTGCAAGCAAGC 204
Db 90 AspSerAlaValTyrTyrCysAlaArgIleAspTyrTyrGlyTyrAspPheAlaTyrTrp 109
QY 205 TCACAAACCTTGACCCCTGACTGTC 228
Db 110 GlyGlnGlyThrThrValThrVal 117

RESULT 15
US-09-296-595-2
Sequence 2, Application US/09296595A
Patent No. 6129915
GENERAL INFORMATION:
APPLICANT: WELS, WINFRIED S.
APPLICANT: SCHMIDT, MATHIAS
APPLICANT: VAKALOPOULOU, EVANGELIA
TITLE OF INVENTION: GROWTH FACTOR RECEPTOR ANTIBODIES
FILE REFERENCE: SCH-1576 D1
CURRENT APPLICATION NUMBER: US/09/296,595A
CURRENT FILING DATE: 1999-04-23
EARLIER APPLICATION NUMBER: 08/800,198
EARLIER FILING DATE: 1997-02-13
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 119
TYPE: PRT
ORGANISM: Murine sp.

US-09-296-595-2

Alignment Scores:

Pred. No.:	3.86	Length:	119
Score:	65.00	Matches:	23
Percent Similarity:	43.18%	Conservative:	15
Best Local Similarity:	26.14%	Mismatches:	26
Query Match:	15.05%	Indels:	24
DB:	3	Gaps:	5

US-09-049-696-10 (1-229) x US-09-296-595-2 (1-119)

```
QY 37 ACTTTGTTCTTATTCACCTGGACACGAG---CTCCCAATCCTTCTCTG----- 87
    |||  ::  ::  |||  |||||  |||  |||  ::  ::  |||  ::  ::  |||
Db 30 ThrAsnTyrTrpMetHisTrpValThrGlnArgProGlyGlnValLeuValTrpIleGly 49
QY 88 -----GATCCGAGT-----GACAGAG-----CAAGGTGGC 114
    ::  |||  ::  ::  |||  |||||  |||  |||  ::  ::  |||
Db 50 TyrThrAsnProAsnThrGlyTyrThrAspPheAsnGlnLysPheLysAspLysAlaThr 69
QY 115 TTGTAGTGGCAAAACACCAAAATGGCTACCTCCAAATCCAGGCAAT----- 165
    |||  |||  ::  ::  |||  |||||  |||  |||  ::  ::  |||
    70 LeuThrAlaAspLysSerSerSerThrAlaTyrMetGlnLeuSerGlyLeuThrSerGlu 89
QY 166 -----GCTAAGGTGGCACTTGGAAATACAGCTCGCAAGCAGC 204
    |||  ::  ::  |||  |||||  |||  |||  ::  ::  |||
Db 90 AspSerAlaValTyrTyrCysAlaArgGlyAspTyrTyrGlyTyrAspPheAlaTyrTrp 109
QY 205 TCACAAACCTTGACCTGACTGTC 228
    |||  |||  ::  ::  |||  |||||  |||  |||  ::  ::  |||
Db 110 GlyGlnGlyThrThrValThrVal 117
```

Search completed: October 17, 2002, 17:59:32
Job time : 9.43221 secs

;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 1
;; LENGTH: 3317
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
;; OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

Query Match 40.5%; Score 88.2; DB 4; Length 3317;
Best Local Similarity 63.4%; Pred. No. 1.5e-21;
Matches 135; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

OY 5 AATGGCCTCATGTAGCTTTGGGCCCCCTTCATCAGGAAGAGAGCTGTCTCAGCGC 64
1464 ACTGGCCTTACTAATGCTTTCATGATTTTCATAGAGTGAAGTACATCAGCAG 1523
Db 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAAGCCAGTGTGATGACACA 124
1524 GCTATTCAGTTGGAAAGCAAGCCCTTGAAATACAGAGAGGAAAGAGTAAGCGCAC 1583
OY 125 GTGATCGTGAGACAGCCGTGGGAAAGACCTTGTTCATACCGTGGCAACGAG 184
Db 1584 GTGCTGTAGAGACGATGAGTGGAAATGACACTTCTTGTGTCATGACATACAA 1643
OY 185 CCTCCCAATCTCTCTGGGATCCAGTGA 217
Db 1644 AACCCAGAAATGTCTCCAGATCCAAAGGA 1676

RESULT 3

US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 40.5%; Score 88.2; DB 4; Length 3418;
Best Local Similarity 63.4%; Pred. No. 1.5e-21;
Matches 135; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

OY 5 AATGGCCTCATGTAGCTTTGGGCCCCCTTCATCAGGAAGAGAGCTGTCTCAGCGC 64
Db 1474 AATGGCCTTATGATGCTTTCAGCAGAAATTCATAGAGTGGCAGCATCTCTCAGCAG 1533
OY 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAAGCCAGTGTGATGACACA 124
Db 1534 GCTTTCATGAGTAAGTAAGTAAGTATCCAGCAGAAAGTAAATGATATGATGATG 1593
OY 125 GTGATCGTGAGACAGCCGTGGGAAAGACCTTGTTCATACCTGAGCAACGAG 184
Db 1594 GTGCTGTAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1653
OY 185 CCTCCCAATCTCTCTGGGATCCAGTGA 217

Db 1654 AAGCCAGAAATATCTTCAAGATCCAAAGGA 1686

RESULT 4

US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match 36.8%; Score 80.2; DB 4; Length 3022;
Best Local Similarity 61.0%; Pred. No. 9.7e-19;
Matches 130; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

OY 5 AATGGCCTCATGTAGCTTTGGGCCCCCTTCATCAGGAAGAGAGCTGTCTCAGCGC 64
Db 1416 AACAGCCTTATGATGCTTTCATGATTTTCATAGAGTGAAGTACATCAGCAG 1475
OY 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAAGCCAGTGTGATGACACA 124
Db 1476 GCTGTGAGTGGAAAGCAAGCCCTTGATGTACAGAGCGGCGGATGAAGGTGATA 1535
OY 125 GTGATCGTGAGACAGCCGTGGGAAAGACCTTGTTCATACCGTGGCAACGAG 184
Db 1536 GTACCTGTGAGACGATGAGTGGGAAAGACGACGACGACGACGACGACGACGAC 1595
OY 185 CCTCCCAATCTCTCTGGGATCCAGTGA 217
Db 1596 AAGCCAGAAATATCTTCAAGATCCAAAGGA 1628

RESULT 5

US-09-193-562D-31
; Sequence 31, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 31
; LENGTH: 2970
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-31

Query Match 33.4%; Score 72.8; DB 4; Length 2970;
Best Local Similarity 64.0%; Pred. No. 4.1e-16;
Matches 110; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

OY 4 CAATGCTCATGTAGCTTTGGGCCCCCTTCATCAGGAAGAGAGCTGTCTCAGCGC 63
Db 1527 CAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1586
OY 64 CTCATCAGCTTGAGAGTGAAGGATTAACTCCAGAAAGCCAGTGTGATGATGATG 123

Db 1587 ACATATTCAGCTGGAAGTACAGGTGAAATGTCAACCTCACATCATTTGAAAAACAC 1646
OY 124 AGTATGATGTGGACAGCACCCTGGGAAGACACTTTGTTCTTTCACCTGG 175
Db 1647 AGTACTGTGATATATCTGTGGGCAACGACACTATGTCTTCTTAAGTACGTGG 1698

RESULT 6

US-08-342-930-1
; Sequence 1, Application US/08342930
; Patent No. 5821084
; GENERAL INFORMATION:
; APPLICANT: OLMSTED, ELIZABETH A.
; APPLICANT: MAURO, LAURA J.
; APPLICANT: DAVIS, ALAN R.
; APPLICANT: DIXON, JACK E.
; TITLE OF INVENTION: OSTEOBLAST-TESTICULAR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/342,930
; FILING DATE: 21-Nov-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KONSKI, ANTOINETTE F.
; REGISTRATION NUMBER: 34,202
; REFERENCE/DOCKET NUMBER: 20344-20975.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5455 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 205..5337
; US-08-342-930-1

Query Match 13.7%; Score 29.8; DB 1; Length 5455;
Best Local Similarity 51.1%; Pred. No. 1.1;
Matches 70; Conservative 0; Mismatches 67; Indels 0; Gaps 0;

OY 46 TGGAGCTGTCTTCAGCGCTCCATCAGCTTGAGAGTAAGGATTAACCTCCAGAACAG 105
Db 5049 TGATGCTGTGGGCGCATGTGCTTCGCGGGCAAGAGCAAGACGACGACCTGCTCAG 5108
OY 106 CCAAGTATGATGAATGCGACAGTGTGAGACAGCCTGGGAAGACACTTTGTTCT 165
Db 5109 CCACTTCAGGAAAACCAAAACAGCTGGGCACTTCTTGCTATGGAACAGCTTTACA 5168
OY 166 TATCACTGGACACGC 182
Db 5169 GCAAGCAGGAGCAGAGC 5185

RESULT 7

US-08-449-287-11
; Sequence 11, Application US/08449287
; Patent No. 5877293

; GENERAL INFORMATION:
; APPLICANT: ADAIR, John Robert
; APPLICANT: BODMER, Mark William
; APPLICANT: MOUNTAIN, Andrew
; APPLICANT: OWENS, Raymond John
; TITLE OF INVENTION: CDR Grafted Anti-CEA Antibodies and
; TITLE OF INVENTION: Their Production
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/449,287
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/154,389
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT GB91/01108
; FILING DATE: 05-JUL-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9014932.9
; FILING DATE: 05-JUL-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT GB90/02017
; FILING DATE: 21-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SAKE, Bernhard D.
; REGISTRATION NUMBER: 28,665
; REFERENCE/DOCKET NUMBER: 40283/110 CARA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 464 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: 9H2-A5B7 variable region
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 22..459
; US-08-449-287-11

Query Match 13.5%; Score 29.4; DB 2; Length 464;
Best Local Similarity 49.7%; Pred. No. 0.44;
Matches 75; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

OY 36 CATCAGGAATGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACC 95
Db 197 CACCTGGAAGGAGCATCGAGTGTGCTGCTTCATCCGAATAAGGCAATGATACACA 256
OY 96 TCCAGAACAGCAGTGTGATGATGACAGTGTGAGACAGCAGCGGGAAGAGACA 155
Db 257 CAGAGTACTCTGATCTGTGAAAGGAGATTCACAAATTTCCAGAGACAAAGACAGTCCA 316
OY 156 CTTTGTCTTATCACCTGACACAGCACC 186

Db 317 CACTGTACCTGCAGATGATACACTGCAGGC 347

RESULT 8

US-08-860-882A-28

; Sequence 28, Application US/08860882A

; Patent No. 5985281

; GENERAL INFORMATION:

; APPLICANT: TAYLORSON, CHRISTOPHER JOHN

; APPLICANT: EGGELTE, HENDRIKUS JOHANNES

; APPLICANT: TARRAGONA-FIOL, ANTONIO

; APPLICANT: RABIN, BRIAN ROBERT

; APPLICANT: BOYLE, FRANCIS THOMAS

; APPLICANT: HENNAM, JOHN FREDERICK

; APPLICANT: BLAKELY, DAVID CHARLES

; APPLICANT: MARSHAM, PETER ROBERT

; APPLICANT: HEATON, DAVID WILLIAM

; APPLICANT: DAVIES, DAVID HUM

; TITLE OF INVENTION: CHEMICAL COMPOUNDS

; NUMBER OF SEQUENCES: 77

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: PILLSBURY, MADISON & SUTRO

; STREET: 1100 NEW YORK AVENUE, N.W.

; CITY: WASHINGTON

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20005

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/860,882A

; FILING DATE: JUNE 23, 1997

; CLASSIFICATION: 424

; ATTORNEY/AGENT INFORMATION:

; NAME: DONALD J. BIRD

; REGISTRATION NUMBER: 25,323

; REFERENCE/DOCKET NUMBER: 9901/238653

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 861-3027

; TELEFAX: (202) 822-0944

; TELEX: 6174627 CUSH

; INFORMATION FOR SEQ ID NO: 28:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 777 BASE PAIRS

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; 8-860-882A-28

Query Match

Best Local Similarity 13.5%; Score 29.4; DB 2; Length 777;

Matches 75; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

Db 36 CAGCAAGAAATGAGGCTGCTCTACAGGCTCCATCCAGCTTGAGAGTAAAGGATTAACCC 95

Db 191 CAGCTGGAAGGAGCTGAGTGGCTGCTCATGGAATAAGCAAAATGATACACA 250

Db 96 TCCAGAACAGCCAGTGATGATGACACAGTATGCTGGACAGCACCGGTGGGAAAGGACA 155

Db 251 CAGAGTACTGCTGATGTAAGGAAAGATTCAATTTCCAGAGACAGCAAGCAACTCCA 310

Db 156 CTTTGTCTTATCCTACCTGACCAAGCAGCC 186

Db 311 CACTGTACTGTCAGATGATATACACTGCAGGC 341

RESULT 9

US-09-411-329C-2/c

; Sequence 2, Application US/09411329C

; Patent No. 6261820

; GENERAL INFORMATION:

; APPLICANT: Boone, Thomas

; APPLICANT: Li, Huimin

; APPLICANT: Mann, Michael

; TITLE OF INVENTION: FIBRINOLYTICALLY ACTIVE POLYPEPTIDE

; FILE REFERENCE: A-596

; CURRENT APPLICATION NUMBER: US/09/411,329C

; CURRENT FILING DATE: 1999-10-01

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: Patent version 3.0

; SEQ ID NO 2

; LENGTH: 603

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: Native pro-NAT (analog of fibrolase)

US-09-411-329C-2

Query Match 13.1%; Score 28.6; DB 4; Length 603;

Best Local Similarity 55.6%; Pred. No. 0.95;

Matches 55; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Db 98 CAGAACAGCCAGTGTGATGATGACAGATGCTGGACAGACCCGTGGAAAGACACT 157

Db 411 CAGACCAACAGCAGGTTAATAGCGAGTGCTCTGATACACCACTAGATGTTTTCAG 352

Db 158 TTGTTTCTTATCCTGACACAGCAGCCTCCCAATC 196

Db 351 TTGACATATGCCACCAAGTAAAGCCAGCAAGTATC 313

RESULT 10

US-09-411-329C-6/c

; Sequence 6, Application US/09411329C

; Patent No. 6261820

; GENERAL INFORMATION:

; APPLICANT: Boone, Thomas

; APPLICANT: Li, Huimin

; APPLICANT: Mann, Michael

; TITLE OF INVENTION: FIBRINOLYTICALLY ACTIVE POLYPEPTIDE

; FILE REFERENCE: A-596

; CURRENT APPLICATION NUMBER: US/09/411,329C

; CURRENT FILING DATE: 1999-10-01

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: Patent version 3.0

; SEQ ID NO 6

; LENGTH: 609

; TYPE: DNA

; ORGANISM: Agkistrodon contortrix

US-09-411-329C-6

Query Match

Best Local Similarity 13.1%; Score 28.6; DB 4; Length 609;

Matches 55; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Db 98 CAGAACAGCCAGTGTGATGATGACAGTATGCTGGACAGACCCGTGGAAAGACACT 157

Db 417 CAGACCAACAGCAGGTTAATAGCGAGTGCTCTGATACACCACTAGATGTTTTCAG 358

Db 158 TTGTTTCTTATCCTGACACAGCAGCCTCCCAATC 196

Db 357 TTGACATATGCCACCAAGTAAAGCCAGCAAGTATC 319

RESULT 11

US-09-411-329C-19/c

; Sequence 19, Application US/09411329C

; Patent No. 6261820

; GENERAL INFORMATION:

; APPLICANT: Boone, Thomas

; APPLICANT: Li, Huimin

; APPLICANT: Mann, Michael

; TITLE OF INVENTION: FIBRINOLYTICALLY ACTIVE POLYPEPTIDE

LENGTH: 1620
TYPE: DNA
ORGANISM: Agkistrodon contortrix
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1620)
OTHER INFORMATION: Complementary (sense) strand of antisense strand (See SEQ ID NO:1)
OTHER INFORMATION: 3
NAME/KEY: misc_feature
OTHER INFORMATION: Coding sequence of native pro-fibrolase of Agkistrodon contortrix
US-09-411-329C-12

Query Match 13.1%; Score 28.6; DB 4; Length 1620;
Best Local Similarity 55.6%; Pred. No. 1.6;
Matches 55; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

OY 98 CAGAACAGCCAGTGTGATGGACAGTGTGATGCGTGGACAGACCCGTGGAAAGGACACT 157
DB 1200 CAGAGCAACCAAGCAGGTATAGCGAGTGTCTGTGATACACCAAGTATGTTTCAG 1141
OR 158 TTGTTCTTATCACCCTGGACAACGAGCCCTCCCAATC 196
1140 TTGACACATGCCACCAAGCTAAGCCAGACCAACAGTATC 1102

Search completed: October 17, 2002, 11:14:10
Job time : 14.8551 secs

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OM nucleic - protein search, using frame_plus.n2p model

Run on: October 17, 2002, 10:27:54 : Search time 6.12324 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-9
Perfect score: 418
Sequence: 1 GAACATGCGCTCATGTATG.....TCTCTGGATGCCAGTGGAC 218

Scoring table: BLOSUM62
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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsun62 -TRANS=human40.cdl
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
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-NO_XLPHY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREDS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents_AA.*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	374	89.5	914	4	US-09-193-562D-28
2	222	53.1	903	4	US-09-193-562D-46
3	219	52.4	1000	4	US-09-193-562D-30
4	212	50.4	902	4	US-09-193-562D-34
5	202	48.3	795	4	US-09-193-562D-11
6	202	48.3	821	4	US-09-193-562D-12
7	202	48.3	905	4	US-09-193-562D-2
8	181.5	43.4	943	4	US-09-193-562D-32
9	64.5	15.4	400	2	US-08-713-298B-2
10	64.5	15.4	400	2	US-08-713-298B-2
11	64.5	15.4	400	3	US-08-814-052-4
12	64.5	15.4	400	3	US-08-812-829-4

13	64.5	15.4	400	4	US-09-226-529-2	Sequence 2, App1
14	64.5	15.4	462	2	US-08-870-180B-13	Sequence 13, App1
15	64.5	15.4	462	2	US-09-226-529-13	Sequence 13, App1
16	61.5	14.7	806	1	US-08-270-076A-11	Sequence 11, App1
17	61	15.0	114	4	US-08-991-862-2	Sequence 2, App1
18	60	14.7	389	4	US-09-199-637A-249	Sequence 249, App
19	60	14.7	589	1	US-07-668-648-2	Sequence 2, App1
20	60	14.7	589	2	US-08-429-698-2	Sequence 2, App1
21	60	14.7	589	2	US-08-431-333-2	Sequence 2, App1
22	60	14.7	589	5	PCT-US91-02321-2	Sequence 2, App1
23	59	14.5	143	4	US-09-227-357-192	Sequence 192, App
24	59	14.1	360	4	US-09-147-915-3	Sequence 3, App1
25	59	14.1	360	4	US-08-639-294-2	Sequence 2, App1
26	59	14.1	626	4	US-09-019-385-2	Sequence 2, App1
27	58	13.9	578	1	US-08-653-740-3	Sequence 3, App1
28	58	13.9	578	2	US-09-073-594-3	Sequence 3, App1
29	58	13.9	578	3	US-09-275-925-3	Sequence 3, App1
30	58	13.9	636	1	US-08-653-740-5	Sequence 5, App1
31	58	13.9	636	2	US-09-073-594-5	Sequence 5, App1
32	58	13.9	636	3	US-09-275-925-5	Sequence 5, App1
33	58	13.9	638	4	US-09-070-637-20	Sequence 20, App1
34	57.5	13.8	467	2	US-08-727-548-2	Sequence 2, App1
35	57.5	13.8	467	4	US-08-945-574-1	Sequence 1, App1
36	57.5	13.8	508	4	US-09-344-700-4	Sequence 4, App1
37	57.5	13.8	688	4	US-09-367-206-20	Sequence 20, App1
38	57.5	13.8	703	4	US-09-367-206-5	Sequence 5, App1
39	57	14.0	43	4	US-09-230-637-61	Sequence 61, App1
40	57	14.0	560	2	US-08-095-728B-6	Sequence 6, App1
41	57	14.0	560	5	PCT-US92-02320A-6	Sequence 6, App1
42	57	14.0	797	2	US-08-095-728B-2	Sequence 2, App1
43	57	14.0	797	5	PCT-US92-02320A-2	Sequence 2, App1
44	56.5	13.9	168	2	US-08-612-788-28	Sequence 28, App1
45	56.5	13.9	168	3	US-09-066-028-28	Sequence 28, App1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
Sequence 28, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedict U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 28
LENGTH: 914
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 2.07e-40
Score: 374.00
Percent Similarity: 100.00%
Best local Similarity: 100.00%
Query Match: 89.47%
DB: 4
Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-28 (1-914)
OY 2 AACATGCGCTCATGTATGCTTTGGGCGCTTCACAGAAATGAGCTGCTCAG 61
DB 465 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484
OY 62 CGCTCCATCCAGCTTGGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGATGAATGCG 121

Db 485 ArgSerIleGlnLeuGlnSerLysGlyLeuThrIleGlnAsnSerGlnTrpMetAsnGly 504
QY 122 ACAATGATCGTGACAGCAGCGGTGGAAAGACACTTGTCTTATCAGCTGAGCAACG 181
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524
QY 182 CAGCTCCCAATCCTTCTGTGGATCCAGTGA 217
Db 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 2
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY APPLICATION NUMBER: US/60/065,922
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.: 1.26e-20 Length: 903
Score: 222.00 Matches: 39
Percent Similarity: 77.46% Conservative: 16
Best Local Similarity: 54.93% Mismatches: 16
Query Match: 53.11% Indels: 0
Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-46 (1-903)
QY 5 AATGGCTCATGTGATGCTTTGGGGCCCTTTCATCAGAAATGAGAGCTGTCTTCAGCGC 64
Db 467 AsnGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGln 486
QY 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAACAGCCAGTGAATGAGCA 124
Db 487 ThrIleGlnLeuGlnSerLysAlaLeuAlaIleThrGlnLysLysTrpValAsnGlyThr 506
QY 125 GTGATCGTGACAGCAGCGGTGGAAAGACACTTGTCTTATCAGCTGAGCAACGAG 184
Db 507 ValProValAspSerThrIleGlyAsnAspThrPhePheValThrTrpThrIleLys 526
QY 185 CCTCCCAATCCTTCTGTGGATCCAGTGA 217
Db 527 LysProGlnIleLeuLeuGlnAspProLysGly 537

RESULT 3
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY APPLICATION NUMBER: US/60/065,922
; PRIORITY FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. No.: 3.18e-20 Length: 1000
Score: 219.00 Matches: 41
Percent Similarity: 76.06% Conservative: 13
Best Local Similarity: 57.75% Mismatches: 17
Query Match: 52.39% Indels: 0
Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-30 (1-1000)
QY 5 AATGGCTCATGTGATGCTTTGGGGCCCTTTCATCAGAAATGAGAGCTGTCTTCAGCGC 64
Db 486 AsnGlyLeuIleAspAlaPheSerArgIleSerSerArgSerGlySerIleSerGln 505
QY 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAACAGCCAGTGAATGAGCA 124
Db 506 AlaLeuGlnLeuGlnSerLysThrLeuAsnIleProAlaLysTrpIleAsnGlyThr 525
QY 125 GTGATCGTGACAGCAGCGGTGGAAAGACACTTGTCTTATCAGCTGAGCAACGAG 184
Db 526 ValProValAspSerThrValArgAsnAspThrSerPheValThrTrpThrIleGln 545
QY 185 CCTCCCAATCCTTCTGTGGATCCAGTGA 217
Db 546 LysProAlaIleIleLeuGlnAspProLysGly 556

RESULT 4
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY APPLICATION NUMBER: US/60/065,922
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 2.52e-19 Length: 902
Score: 212.00 Matches: 39
Percent Similarity: 74.65% Conservative: 14
Best Local Similarity: 54.93% Mismatches: 18
Query Match: 50.72% Indels: 0
Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-34 (1-902)
QY 5 AATGGCTCATGTGATGCTTTGGGGCCCTTTCATCAGAAATGAGAGCTGTCTTCAGCGC 64
Db 467 AsnSerLeuIleAspAlaPheSerArgIleSerSerArgSerGlySerValSerGln 486
QY 65 TCATCCAGCTTGAGAGTAAGGATTAACTCCAGAAACAGCCAGTGAATGAGCA 124
Db 487 AlaLeuGlnLeuGlnSerLysLysAlaPheAspValAlaGlnAlaTrpIleAsnGlyThr 506
QY 125 GTGATCGTGACAGCAGCGGTGGAAAGACACTTGTCTTATCAGCTGAGCAACGAG 184

```
Db 507 ValProLeuAspSerThrValGlyAsnAspThrPhePheValIleThrTrpMetVallys 526
QY 185 CCGCCCAATCCTTCCTGGGATCCAGTGGA 217
Db 527 LysProGluIleLeuGlnAspProLysGly 537

RESULT 5
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 4,86e-18 Length: 795
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
Gaps: 0
Db: 4

US-09-049-696-9 (1-218) x US-09-193-562D-11 (1-795)

QY 8 GGCTCATGTGATGCTTTGGGGCCCTTCATCAGGAATGAGCTGTCTGCACGGCTCC 67
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
QY 68 ATCCAGCTTGAGAGTAGGATTAACCTCCAGAACAGCCAGTGATGATGACAGTG 127
Db 489 IleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
QY 128 ATCGTGACAGACACCGTGGGAAAGACACTTTGTTCTTATCAGCTGACAGCAGCT 187
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
QY 188 CCGCAATCCTTCCTCTGGGATCCAGTGGA 217
Db 529 ProGluIleValLeuGlnAspProLysGly 538

RESULT 6
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
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; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 4.91e-18 Length: 821
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
Gaps: 0
Db: 4

US-09-049-696-9 (1-218) x US-09-193-562D-12 (1-821)

QY 8 GGCTCATGTGATGCTTTGGGGCCCTTCATCAGGAATGAGCTGTCTGCACGGCTCC 67
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
QY 68 ATCCAGCTTGAGAGTAGGATTAACCTCCAGAACAGCCAGTGATGATGACAGTG 127
Db 489 IleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
QY 128 ATCGTGACAGACACCGTGGGAAAGACACTTTGTTCTTATCAGCTGACAGCAGCT 187
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
QY 188 CCGCAATCCTTCCTCTGGGATCCAGTGGA 217
Db 529 ProGluIleValLeuGlnAspProLysGly 538

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5.04e-18 Length: 905
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
Gaps: 0
Db: 4

US-09-049-696-9 (1-218) x US-09-193-562D-2 (1-905)

QY 8 GGCTCATGTGATGCTTTGGGGCCCTTCATCAGGAATGAGCTGTCTGCACGGCTCC 67
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
QY 68 ATCCAGCTTGAGAGTAGGATTAACCTCCAGAACAGCCAGTGATGATGACAGTG 127
Db 489 IleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
QY 128 ATCGTGACAGACACCGTGGGAAAGACACTTTGTTCTTATCAGCTGACAGCAGCT 187
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
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1 CURRENT APPLICATION NUMBER: US/09/193,562D
 2
 3 CURRENT FILING DATE: 1998-11-17
 4
 5 PRIOR APPLICATION NUMBER: US/60/065,922
 6
 7 PRIOR FILING DATE: 1997-11-17
 8
 9 NUMBER OF SEQ ID NOS: 47
 10
 11 SEQ ID NO 33
 12
 13 LENGTH: 3022
 14
 15 TYPE: DNA
 16
 17 ORGANISM: Mus musculus
 18
 19 US-09-193-562D-33

Query Match	48.2%;	Score 113.2;	DB 4;	Length 3022;
Best Local Similarity	68.3%;	Pred. No. 2.3e-30;		
Matches 157;	Conservative	0;	Mismatches 73;	Indels 0;
				Gaps 0;

Qy	3	CANAGCAAAATTCOCCAGCCCTCTGGTAGTTATATGCAAAATATTCGCCAGAGAGCTCCC	62
Db	1832	CACAGCCCATAGCTTACCTTACGCCGATGATTTGTGTCGACAGCGGTACACCAAGATTTTTGCC	1891
Qy	63	AATTCCTCAGGGCCAGTGTCAACGCCCTGATTTGATTCAGTAATGAGAAAACAGTACTT	122
Db	1892	TGTTCTGGAGGCCAATGTCAACGCCCTCAATAGAACTGAACTGACATCAACAGTACACTT	1951
Qy	123	GGAACTACTGATATGAGCAGAGTGTATGCTACTAAGATGAGAGCGGTCTACTCAAG	182
Db	1952	GGAGCTCTGGGACATATGGGGCAGGTGTGATATCGTTAAATAATGATGAGCATTTACACAG	2011
Qy	183	GAATTCCTCAACTATATGACACAGATGGTGAATATACAGTGTAAAAGTCCGGG	232
Db	2012	ATACTTTACAGATTTATCTGAAATATGTTAATATACAGCGTAAAGTCCGCG	2061

RESULT 3
US-09-193-562D-31
; Sequence 31, Application US/09193562D

Patent No.: 0509020
 GENERAL INFORMATION:
 APPLICANT: Pauli, Benedicte U.
 TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
 FILE REFERENCE: 18617.0052
 CURRENT APPLICATION NUMBER: US/09/193,562D
 CURRENT FILING DATE: 1998-11-17
 PRIOR APPLICATION NUMBER: US/60/065,922
 PRIOR FILING DATE: 1997-11-17
 NUMBER OF SEQ ID NOS: 47
 SEQ ID NO 31
 LENGTH: 2970
 TYPE: DNA
 ORGANISM: Homo sapiens
 09-193-562D-31
 Query Match 45.7% Score 107.4; DB 4; Length 2970;
 Best Local Similarity 66.8%; Pred. No. 2,5e-28;
 Matches 153; Conservative 0; Mismatches 76; Indels 0; Gaps 0

```

RESULT 4
US-09-193-562D-29
: Sequence 29, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193.562D
: PRIOR FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 29
: LENGTH: 3418
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-193-562D-29

```

Query Match	45.5%	Score 107;	DB 4;	Length 3418;
Best Local Similarity	68.0%	Pred. No. 3,8	-28;	
Matches 149;	Conservative	0;	Mismatches 70;	Indels 0;
				Gaps 0;

QY	11	AATTOCCAGCCCTTCCTGTAAGTTATAGCAAAATTTGCGCCAGAGACCTCCCAATTCGA	70
DB	1904	ATTACCCTTAGCCCGCATATGTTATATGCAATGTCTCAGTCAAGGGTTTCTCCTGTTCTGG	1963
QY	71	GGGCGCAGTGTACACAGCCCTGATTGAATCACTGTAATGGAAGAAAACAGTTACCTTGGACATAC	130
DB	1964	GAAATCAATGTAACAGCCATTATAGAAAATGAAGAGGACATCAAGTAAGTACATTTGGAGGCTCT	2023
QY	131	TGGATATATGAGACAGAGTGTGATGTCTACTAAGGATGACGCTGTCTACTCAAGCATATTTCA	190
DB	2024	GGCAACAAGGGCGAGGTGTCTGATTTCTGTCAAGATGATGGCATCTACTCAAGGTATTTTA	2083
QY	191	CAACTATGACACGATGGTATGATACAGTGTAAAGGTGC	229
DB	2084	CAGATTACCATGGAATGTGATGATCAAGTTTAAAAAGTCC	2122

```

RESULT 5
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
;
; GENERAL INFORMATION:
; APPLICANT: Pauli, Nucleicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
;
; SEQ ID NO 1
; LENGTH: 3317
;
; TYPE: DNA
;
; ORGANISM: Unknown
;
; FEATURE:
;
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; with bovine endothelial cells
US-09-193-562D-1

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Query Match	Similarity	44.0%	Score 103.4	DB 4	Length 3317
Best Local	Similarity	66.2%	Pred. No. 7.1e-27		
Matches 145	Conservative	0	Mismatches 76	Indels	Gaps 0
QY	11 AATTCGCCAGCCCTCGTAGTTATGCAATATTCGCCAAGAGCGTCCCAATCTCA	70			
DB	1894 ATTATCTTAGGCCCAATGTTTATTATGCACAGCATCATCAAGGTTTTTCCGTACTCG	1953			
QY	71 GGGCCAGTGTACACGCCCTGATTTCATATCAGTAGAATGAAAAACAGTTACTCTGGAACTAC	130			

LOCATION: 2..685
US-08-469-667-8

Query Match 27.7%; Score 65; DB 1; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5e-13;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 230
|||||
DB 1 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 60
QY 231 GGCTC 235
|||||
DB 61 GGCTC 65

RESULT 9
US-09-224-110-8
; Sequence 8, Application US/09224110
; Patent No. 6337195

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang
ATTORNEY/AGENT INFORMATION:

TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESSEE: Stewart & Olstein

STREET: 6 Becker Farm Road
CITY: Roseland

STATE: NJ
COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667

FILING DATE: 06-JUN-1995

ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.

REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435

TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ. ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 878 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 2..685

US-09-224-110-8

Query Match 27.7%; Score 65; DB 4; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5e-13;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 230
|||||
DB 1 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 60
QY 231 GGCTC 235
|||||

DB 61 GGCTC 65
|||||

RESULT 10
PCT-US95-07289-8
; Sequence 9, Application PC/TUS9507289

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang
ATTORNEY/AGENT INFORMATION:

TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESSEE: Stewart & Olstein

STREET: 6 Becker Farm Road
CITY: Roseland

STATE: NJ
COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289

FILING DATE: 06-JUN-1995

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.

REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265

TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ. ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 878 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 2..685

PCT-US95-07289-8

Query Match 27.7%; Score 65; DB 5; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5e-13;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 230
|||||
DB 1 TGTCTACTCAAGTATTTCACACTTATGACAGCAATGTAGATACAGTAAAGTGGC 60
QY 231 GGCTC 235
|||||
DB 61 GGCTC 65

RESULT 11

US-08-809-267-9
; Sequence 9, Application US/08809267

Patent No. 5861296

GENERAL INFORMATION:

APPLICANT: LENNOX, Tricia L.
ATTORNEY/AGENT INFORMATION:

TITLE OF INVENTION: SLATKO, Barton E.
TITLE OF INVENTION: SEARS, Lauren E.

TITLE OF INVENTION: PURIFIED THERMOSTABLE INORGANIC
PYROPHOSPHATASE OBTAINABLE FROM THERMOCOCCUS
LITORALIS

NUMBER OF SEQUENCES: 28


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CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13662A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/329,721
FILING DATE: 25-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: WILLIAMS, GREGORY D.
REGISTRATION NUMBER: 30901
REFERENCE/DOCKET NUMBER: NEB-105-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 927-5054
TELEFAX: (508) 927-1705
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 531 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
PCT-US95-13662A-9

Query Match          13.4%  Score 31.4;  DB 5;  Length 531;
Best Local Similarity 56.2%;  Pred. No. 0.095;
Matches 59;  Conservative 0;  Mismatches 46;  Indels 0;  Gaps 0;

QY      8  GCAATTCGCCAGCCCTCTGGTAGTGTATTCGCAAAATATTCCGCCAAGAGCCTCCCAATTC 67
        |||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      262  GCAAGACCAAAAGGCGCTTTCAAGATGATATGACAGCGCGCAAGAGACTACAGGTATTG 321

QY      68  TCAGGGCCAGTGTCAACAGCCCTGATTCGATGATCAGATGAAAA 112
        |||  |||||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      322  GCAATTCCAGTGAAGATCCCTACTTATATGACTGGAAGACATA 366

RESULT 13
US-09-173-151A-17
; Sequence 17, Application US/09173151A
; Patent No. 6326472
GENERAL INFORMATION:
APPLICANT: Timans, Jacqueline C.
APPLICANT: Debets, Johannes Eduard Maria
APPLICANT: Antonius
APPLICANT: Sana, Theodore R.
APPLICANT: Bazan, J. Fernando
APPLICANT: Kastelein, Robert A.
TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/173,151A
FILING DATE: 14-OCT-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/065,776
FILING DATE: 17-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,008
FILING DATE: 12-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/081,883

```

FILING DATE: 15-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/095,987
FILING DATE: 10-AUG-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,416
FILING DATE: 18-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/062,066
FILING DATE: 15-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0767X
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1200
INFORMATION FOR SEQ. ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 516 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..514
FEATURE:
NAME/KEY: misc_feature
LOCATION: 374
OTHER INFORMATION: /note="nucleotides 374, 383, 396,
403, 433, 458, 459, 483, and 515 are indicated as C; each may
OTHER INFORMATION: A, C, G, or T"
US-09-173-151A-17

Query Match 12.8%; Score 30; DB 4; Length 516;
Best Local Similarity 50.7%; Pred. No. 0.3;
Matches 72; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 19 AGCCCTGTGTTGTAATTCGCAATATTCGCCAAGAGACCTCCCAATTCTCAGGGCCAGT 78
DB 125 ACCGAGCTGGTGCTGCTGTAATCTAACCTGCAGAGCTTCTTGGGTACAGCGGAGAT 184
QY 79 GTCACAGCCCTGATGTAATGATGTAATGAAACAGTACCTGGAAGTACTGATTAAT 138
DB 185 GTCAGCTCTTAATTTCTGATGCAAGAGAAATTTATGAAATCTGGATGAAAT 244
QY 139 GGAGCAGGTGCTGATGCTACTA 160
245 CGAGTTGGGAAGTGACATTA 266

RESULT 14

US-09-173-151A-19
Sequence 19, Application US/09173151A
Patent No. 6326472
GENERAL INFORMATION:
APPLICANT: Timans, Jacqueline C.
APPLICANT: Debets, Johannes Eduard Maria
APPLICANT: Antonius
APPLICANT: Sana, Theodore R.
APPLICANT: Bazan, J. Fernando
APPLICANT: Kastelein, Robert A.
TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNA Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/173,151A
FILING DATE: 14-OCT-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/065,776
FILING DATE: 17-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,008
FILING DATE: 12-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/081,883
FILING DATE: 15-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/095,987
FILING DATE: 10-AUG-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/078,416
FILING DATE: 18-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/062,066
FILING DATE: 15-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0767X
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1200
INFORMATION FOR SEQ. ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1458
US-09-173-151A-19

Query Match 12.8%; Score 30; DB 4; Length 191;
Best Local Similarity 50.7%; Pred. No. 0.58;
Matches 72; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 19 AGCCCTGTGTTGTAATTCGCAATATTCGCCAAGAGACCTCCCAATTCTCAGGGCCAGT 78
DB 139 ACCGAGCTGGTGCTGCTGTAATCTAACCTGCAGAGCTTCTTGGGTACAGCGGAGAT 198
QY 79 GTCACAGCCCTGATGTAATGATGTAATGAAACAGTACCTGGAAGTACTGATTAAT 138
DB 199 GTCAGCTCTTAATTTCTGATGCAAGAGAAATTTATGAAATCTGGATGAAAT 258
QY 139 GGAGCAGGTGCTGATGCTACTA 160
259 CGAGTTGGGAAGTGACATTA 280

RESULT 15

US-09-173-151A-34
Sequence 34, Application US/09173151A
Patent No. 6326472
GENERAL INFORMATION:
APPLICANT: Timans, Jacqueline C.
APPLICANT: Debets, Johannes Eduard Maria
APPLICANT: Antonius
APPLICANT: Sana, Theodore R.
APPLICANT: Bazan, J. Fernando
APPLICANT: Kastelein, Robert A.

Job time : 15.4677 secs

TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods

NUMBER OF SEQUENCES: 36

CORRESPONDENCE ADDRESSES:

ADDRESSEE: DNAX Research Institute

STREET: 901 California Avenue

CITY: Palo Alto

STATE: California

COUNTRY: USA

ZIP: 94304-1104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/173,151A

CLASSIFICATION: 435

FILING DATE: 14-OCT-1998

APPLICATION NUMBER: US 60/065,776

FILING DATE: 17-NOV-1997

APPLICATION NUMBER: US 60/078,008

FILING DATE: 12-MAR-1998

APPLICATION NUMBER: US 60/081,883

FILING DATE: 15-APR-1998

APPLICATION NUMBER: US 60/095,987

FILING DATE: 10-AUG-1998

APPLICATION NUMBER: US 60/078,416

FILING DATE: 18-MAR-1998

APPLICATION NUMBER: US 60/062,066

FILING DATE: 15-OCT-1997

APPLICATION NUMBER: US 60/062,066

ATTORNEY/AGENT INFORMATION:

NAME: Ching, Edwin P.

REGISTRATION NUMBER: 34,090

REFERENCE/DOCKET NUMBER: DX0767X

TELEPHONE: (650)852-9196

TELEFAX: (650)496-1200

INFORMATION FOR SEQ ID NO: 34:

SEQUENCE CHARACTERISTICS:

LENGTH: 2537 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..2004

US-09-173-151A-34

Query Match 12.8%; Score 30; DB 4; Length 2537;

Best Local Similarity 50.7%; Pred. No. 0.65; Mismatches 70; Indels 0; Gaps 0;

Matches 72; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

19 AGCCCTGCTAGTATTCATTAATTCGCAAGAGAGCTCCCAATTCACAGGCGAGT 78

DB 685 ACCCAGCTGGTACTCTCTACTATACCTGAGAGCTTCTTGGTACAGCGAGAT 744

QY 79 GTCAACAGCCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 138

DB 745 GTCAAGTCTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 804

QY 139 GGAGCAGGTGCTGATGCTACTA 160

DB 805 CGAGTTGGAGAAAGTGACATTA 826

Search completed: October 17, 2002, 11:14:44

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 6.60074 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-12
Perfect score: 417
Sequence: 1 GACACCGACCAATTCGCCAG.....CACTGTAAAGTCGGGCTC 235

Scoring table: BLOSUM62
Xgapop 10.0 , Ygapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-DB-Issued_Patents_AA -OPMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
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-USPR=US09049696.ecgn1.1.57-etunal.16102002.115821.24739 -ICPU=3
-NO_XLPHY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEDOUT=120
-WANT_TIMEDOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

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5: /cgn2_6/prodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	389	93.3	914	4	US-09-193-562D-28
2	291	69.8	903	4	US-09-193-562D-46
3	250	60.0	902	4	US-09-193-562D-34
4	247	59.2	1000	4	US-09-193-562D-30
5	243	58.3	795	4	US-09-193-562D-11
6	243	58.3	821	4	US-09-193-562D-12
7	243	58.3	905	4	US-09-193-562D-2
8	237	56.8	943	4	US-09-193-562D-32
9	111	26.6	228	1	US-08-469-667-9
10	111	26.6	228	1	US-09-224-110-9
11	111	26.6	228	5	PCT-US95-07289-9
12	66	15.2	1854	4	US-09-004-838-108

13	63.5	15.2	484	1	US-08-597-236-2	Sequence 2, Appl1
14	63.5	15.2	484	1	US-08-746-682A-2	Sequence 2, Appl1
15	62	14.9	857	2	US-08-779-113-2	Sequence 2, Appl1
16	62	14.9	858	2	US-08-583-562B-2	Sequence 2, Appl1
17	61	14.6	456	4	US-08-975-762-66	Sequence 66, Appl1
18	61	14.6	456	4	US-09-295-028-66	Sequence 66, Appl1
19	61	14.6	456	4	US-09-106-582-66	Sequence 66, Appl1
20	60.5	14.5	615	2	US-08-752-307B-9	Sequence 9, Appl1
21	60	13.8	630	2	US-08-961-083-174	Sequence 3, Appl1
22	60	13.8	630	2	US-08-966-268-3	Sequence 3, Appl1
23	59.5	14.3	347	4	US-09-094-557-3	Sequence 3, Appl1
24	58.5	14.0	179	4	US-08-339-214-22	Sequence 22, Appl1
25	58.5	14.0	279	4	US-08-339-214-24	Sequence 22, Appl1
26	58.5	14.0	279	4	US-08-339-214-32	Sequence 32, Appl1
27	58.5	14.0	279	5	PCT-US95-00362-5	Sequence 5, Appl1
28	58.5	14.0	788	2	US-08-918-814-4	Sequence 4, Appl1
29	57.5	13.8	158	1	US-08-403-866-8	Sequence 8, Appl1
30	57	13.7	1805	4	US-09-240-639-12	Sequence 12, Appl1
31	57	13.1	1805	4	US-09-004-838-92	Sequence 92, Appl1
32	56.5	13.5	259	4	US-08-961-083-174	Sequence 174, Appl1
33	56.5	13.5	539	2	US-08-978-182-3	Sequence 3, Appl1
34	56.5	13.5	539	2	US-09-205-681-3	Sequence 3, Appl1
35	56.5	13.5	1112	2	US-08-714-402-2	Sequence 2, Appl1
36	56.5	13.5	1161	4	US-09-327-536-2	Sequence 2, Appl1
37	56.5	13.5	1296	1	US-08-480-604A-28	Sequence 28, Appl1
38	56.5	13.5	1296	1	US-08-405-496A-28	Sequence 28, Appl1
39	56.5	13.5	1296	4	US-08-915-136-28	Sequence 28, Appl1
40	56	13.4	222	1	US-08-129-610-8	Sequence 8, Appl1
41	56	13.4	222	1	US-08-129-609A-8	Sequence 8, Appl1
42	56	13.4	222	1	US-08-455-313-8	Sequence 8, Appl1
43	56	13.4	222	1	US-08-475-924-3	Sequence 3, Appl1
44	56	13.4	222	2	US-08-657-579A-3	Sequence 3, Appl1
45	56	13.4	222	4	US-09-224-025-8	Sequence 8, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:

Pred. No.: 3.02e-46
Score: 389.00
Percent Similarity: 100.00%
Best Local Similarity: 98.72%
Query Match: 93.29%
DB: 4
Length: 914
Matches: 77
Conservative: 1
Mismatches: 0
Indels: 0
Gaps: 0

US-09-049-696-12 (1-235) x US-09-193-562D-28 (1-914)

QY 1 GACACCGACCAATTCGCCAGCCCTGTGTTATGCAATATGCGCAAGAGCCTCC 60
DB 600 AsprhsrlysrlysphepseproleuValValYrYlaasnleatgIngIngYlaSer 619
QY 61 CCAATTCAGGGCGCAATGTCACAGCCCTGATGTAATGATGGAATGGAAGAGCTACC 120
|||||

Db 620 ProfileuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr 639
 QY 121 TTGGAACACTACGGATTAATGAGACAGCTGCTATGCTACTAAGATGACGGTGTCTACCA 180
 |||
 Db 640 LeuGlnLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrIser 659
 QY 181 AGGTAATTCACAACTTATGACACGAGATGATGATACAGTGTAAAGTGGGCGCT 234
 |||
 Db 660 ArgTyrPheThrThrTyrAspPheThrAsnGlyArgTyrIserValLysValAlaGla 677
 RESULT 2
 US-09-193-562D-46
 Sequence 46, Application US/09193562D
 Patent No. 6309857
 GENERAL INFORMATION:
 APPLICANT: Pauli, Benedict U.
 TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 FILE REFERENCE: 18617.0052
 CURRENT APPLICATION NUMBER: US/09/193,562D
 CURRENT FILING DATE: 1998-11-17
 PRIOR APPLICATION NUMBER: US/60/065,922
 PRIOR FILING DATE: 1997-11-17
 NUMBER OF SEQ ID NOS: 47
 SEQ ID NO 46
 LENGTH: 903
 TYPE: PRT
 ORGANISM: Unknown
 FEATURE:
 OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
 OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
 US-09-193-562D-46

Alignment Scores:			
Pred. NO.:	1.93e-32	Length:	903
Score:	291.00	Matches:	35
Percent Similarity:	84.62%	Conservative:	11
Best Local Similarity:	70.51%	Mismatches:	12
Query Match:	69.78%	Indels:	0
DB:	4	Gaps:	0
US-09-049-696-12 (1-235) x US-09-193-562D-46 (1-903)			
QY	1 GACACGACGAATTTCCCGAGCCCTCTGTAGTTATGCAATATTCGCCAAGAGCCCTCC	60	
Db	607 AsnthrhlahstlyrproserProvalIlevalIyrlhlaInvalserIngInglyrheU	626	
QY	61 CCAATTCTCAGGGCCAGTGTACACGCCCTGATTGAATCAGTGAATGGAATAAACAGTTACC	1200	
Db	627 ProvalIleuglyIleAsnValThraIleIleGluThrGluAspGlyHnslngInvalThr	646	
QY	121 TTGGACACACGSGAATTAATGAGCGAGGTGCATGCTCTAAGATGAGCGGTCTACTCA	1808	
Db	647 leugluLeuThrpaSpasngIyAlaGlyAlaSpaIaThrlySaspaSpGlyValTyser	666	
QY	181 AGGTATTTACACAACTTATGACACGAAAGGTGATACAGTGAATAAGTGGCGGCT	234	
Db	667 ArglyrPhetrhTrhTyraSPthAsnGlyArglyrSerVallySValhISAla	684	
RESULT 3			
US-09-193-562D-34			
Sequence 34, Application US/09193562D			
Patent No. 6309857			
GENERAL INFORMATION:			
APPLICANT: Pauli, Benedicht U.			
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
FILE REFERENCE: 18617.0052			
CURRENT APPLICATION NUMBER: US/09/193.562D			
CURRENT FILING DATE: 1998-11-17			
PRIOR APPLICATION NUMBER: US/60/065.922			
PRIOR FILING DATE: 1997-11-17			

```

; NUMBER OF SEQ ID NOS: 4
; SEQ ID NO 34
; LENGTH: 902
; TYPE: prt
; ORGANISM: Mus musculus
US-09-193-562D-34

```

Alignment Scores:	
Pred. No.:	1,15e-26
Score:	250.00
Percent Similarity:	80.26%
Best local Similarity:	61.84%
Query Match:	59.95%
DB:	4
Length:	902
Matches:	17
Conservative:	47
Mismatches:	15
Indels:	0
Gaps:	0

US-09-049-696-12 (1-235) x US-09-193-562D-34 (1-902)

[illegible]

RESULT 4

; Sequence 30, Application US/09193562D

GENERAL INFORMATION:

1. TITLE OF INVENTION:

; FILE REFERENCE: 18617.0052

; CURRENT FILING DATE: 1998-11-17

;
PRIOR FILING DATE: 1997-

```

; SEQ ID NO 30

```

TYPE: PRT

US-09-193-562D-30

Alignment Scores:

Score:

Best Local Similarity

DB:

US-09-049-696-12 (1-235) x US-09-193-562D-30 (1-1000)

QY 1 GACACCGCAATTCCCCAGCCCTCTGGTAGTTATGCAATATTGCCAAGGAGCCTCC 60

Db 626 AsnThrAlaHisTyrProSerProValIleValTyrAlaCysValSerGlnGlyPheLeu 645

61 CCAATTCTCAGGGCCAGTGTCAACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACC 120

Db 646 ProValLeuGlyIleAsnValThrAlaIleIleGluAsnGluGluGlyHisGlnValThr 665

QY 121 TTGGACTACTGGATATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTCTCTACTCA 180

```

Db      666 LeuGIuleucysAspaSnglYAlaGlYAlaaspeRVallyLSaSnspgLYllEtyrSer 685
QY      181 AGCATTTCCACAACTTATGACAGCAATGGTAGATACAGTGTAAGTC 228
        ||||||||| ||| |||||||||||:::|||||
Db      686 ArgTrpPheThrAspTryrHISglYAsnGLyArgTyrsErLeuLysVal 701
        ||||||||| ||| |||||||||||:::|||||

RESULT 5
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18611.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.:          1.07e-25           Length:          795
Score:              243.00             Matches:           46
Percent Similarity: 75.32%             Conservative:     12
Best Local Similarity: 59.74%           Mismatches:       19
Query Match:         58.27%             Indels:            0
DB:                  4                   Gaps:             0

US-09-049-696-12 (1-235) x US-09-193-562D-11 (1-795)
QY      4   ACCGACAATTCGCCAGCCTCTGTGATTGTTATGCATAATATTCGCCAAGAGCCTCCCA 63
        ||:::  ::|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      609 ThrIlnstyrProserPrromElleValtryrLaGlnvalserGInglyrPheLeuPro 628
        ||:::  ::|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY      64   ATTGTCAAGGCCACTGTGCACAGCCCTGAATGTGAATCACTGAATGGAAAACAGTTACC 123
        ::|||  |||||  ||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      629 ValIeuGLyIleSerValIIeAlaIllelleGlnthrGluaspGlyHISGlnvalThrLeu 648
        ::|||  |||||  ||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      124 GAATCTACTCGATATGAGACGAGCTGCTGARCTACTTAAGGATGACGGTCTCTACTCAAG 183
        |||||  ||||||| ||||||| |||  ||::|::|::|::|::|::|::|::|::|::|::|
Db      649 GluIeuTrpAspaSnglYAlaGlYArgAspThrValLysAsnspGlyIIdetyrSerArg 668
        |||||  ||||||| ||||||| |||  ||::|::|::|::|::|::|::|::|::|::|::|
QY      184 TATTTCACAACCTTATGACAGCAATGGTAGATACAGTGAAGAAGCGCGGCT 234
        |||||||  |||  |||||||||||:::|||||
Db      669 TyrPheThrAspTryrTYrgLyAsnGLyArgTyrsErLeuLysValIHISala 685
        |||||||  |||  |||||||||||:::|||||

RESULT 6
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18611.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:

```

```

: OTHER INFORMATION: Variant of Lu-BCAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.:      1,08e-25          Length:      821
Score:           243.00          Matches:       46
Percent Similarity: 75.32%        Conservative: 12
Best Local Similarity: 59.74%     Mismatches:    19
Query Match:      58.27%         Indels:        0
DB:               4              Gaps:            0

US-09-049-696-12 (1-235) x US-09-193-562D-12 (1-821)
QY      4   ACCAGCAAAATTCGCCAGCCCTGTGTAAGTTTATGCACAAATATTCCGAAGAGCCTCCCA 63
      :   :::::::::::::::::::::|||||  :: |||||  ||
Db      609 ThrAlaHnStyrrProSerPromeIleValTyrlaGlInValSerGlnGlyrPheLeuPro 628
      :   :::::::::::::::::::::|||||  :: |||||  ||

QY      64   ATTCTCAGGGCCAGTGTCACAGCCCTGATTAATCAGTAGAATCGAATAAGAAAACAGTTACTTG 123
      :   ::::|  |||||  |||:::||::|  ::::|  |||||  ||
Db      629 ValLeuugLyIleserValIleAlaIlelleGIthrGluNsprgLyHnIsGlnValThrLeu 648
      :   ::::|  |||||  |||:::||::|  ::::|  |||||  ||

QY      124  GAACACTAGCATTAATGGAGCAGGAGTCGATCTACTAAGATGACGCTGTCTACTCAAG 183
      :   |||||  |||||  |||||  |||  |  :::::::::::::::::::::|||||  ||
Db      649 GlueutrPaspaSnngLyAlaGlyArgAsprThrValLysAsnsprGlyIleTySerArg 668
      :   |||||  |||||  |||||  |||  |  :::::::::::::::::::::|||||  ||

RESULT 7
US-09-193-562D-2
: Sequence 2, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193,562D
: PRIOR FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 2
: LENGTH: 905
: TYPE: PRT
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Lu-BCAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.:      1.12e-25          Length:      905
Score:           243.00          Matches:       46
Percent Similarity: 75.32%        Conservative: 12
Best Local Similarity: 59.74%     Mismatches:    19
Query Match:      58.27%         Indels:        0
DB:               4              Gaps:            0

US-09-049-696-12 (1-235) x US-09-193-562D-2 (1-905)
QY      4   ACCAGCAAAATTCGCCAGCCCTGTGTAAGTTTATGCACAAATATTCCGAAGAGCCTCCCA 63
      :   :::::::::::::::::::::|||||  :: |||||  ||
Db      609 ThrAlaHnStyrrProSerPromeIleValTyrlaGlInValSerGlnGlyrPheLeuPro 628
      :   :::::::::::::::::::::|||||  :: |||||  ||

QY      64   ATTCTCAGGGCCAGTGTCACAGCCCTGATTAATCAGTAGAATCGAATAAGAAAACAGTTACTTG 123
      :   ::::|  |||||  |||:::||::|  ::::|  |||||  ||
Db      629 ValLeuugLyIleserValIleAlaIlelleGIthrGluNsprgLyHnIsGlnValThrLeu 648
      :   ::::|  |||||  |||~::~||~::|  ::::|  |||||  ||

QY      124  GAACACTAGCATTAATGGAGCAGGAGTCGATCTACTAAGATGACGCTGTCTACTCAAG 183
      :   |||||  |||||  |||||  |||  |  :::::::::::::::::::::|||||  ||
Db      649 GlueutrPaspaSnngLyAlaGlyArgAsprThrValLysAsnsprGlyIleTySerArg 668

```


SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-224-110-9

Alignment Scores:

Pred. No.:	2.69e-07	Length:	228
Score:	111.00	Matches:	21
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	26.62%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-12 (1-235) x US-09-224-110-9 (1-228)

QY 172 GCTACTCAGGTATTTCACACTTATGACAGCAATGTAGTACAGTGTAAAGTGGCG 231
|||||
1 VAlTYSerArGTyPheThrThrTyRAspThRAsnGLyArGTySerVallySValArg 20

OY 232 GCT 234
|||
DB 21 Ala 21

RESULT 11
PCT-US95-07289-9

Sequence 9, Application PC/TUS9507289

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-07289-9

Alignment Scores:

Pred. No.:	2.69e-07	Length:	228
Score:	111.00	Matches:	21
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	26.62%	Indels:	0
DB:	5	Gaps:	0

US-09-049-696-12 (1-235) x PCT-US95-07289-9 (1-228)

QY 172 GCTACTCAGGTATTTCACACTTATGACAGCAATGTAGTACAGTGTAAAGTGGCG 231
|||||
DB 1 VAlTYSerArGTyPheThrThrTyRAspThRAsnGLyArGTySerVallySValArg 20

OY 232 GCT 234
|||
DB 21 Ala 21

RESULT 12

US-09-004-838-108

Sequence 108, Application US/09004838

Patent No. 6350933

GENERAL INFORMATION:

APPLICANT: Michelmere, Richard W.
APPLICANT: Shen, Kathy
APPLICANT: Meyers, Blake
TITLE OF INVENTION: Procedures and Materials for
TITLE OF INVENTION: Conferring Pest Resistance in Plants
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/004,838
FILING DATE: 09-JAN-1998
CLASSIFICATION: 800

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/781,734
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Einhorn, Gregory P.
REGISTRATION NUMBER: 38,440
REFERENCE/DOCKET NUMBER: 023070-078810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 108:
SEQUENCE CHARACTERISTICS:
LENGTH: 1854 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

NAME/KEY: -
LOCATION: 1..1854
OTHER INFORMATION: /note= "RG2J deduced sequence"
US-09-004-838-108

Alignment Scores:

Pred. No.:	1.24	Length:	1854
Score:	66.00	Matches:	22
Percent Similarity:	56.25%	Conservative:	5
Best Local Similarity:	45.83%	Mismatches:	20
Query Match:	15.17%	Indels:	1
DB:	4	Gaps:	0

US-09-049-696-12 (1-235) x US-09-004-838-108 (1-1854)

QY 167 TCATCTTAGTACAGTACGACCTGCTCCATTATCCAGTACTGTTT 108
|||||
DB 1454 SerSerSerSerSerSerSerSerProSerSerSerlySlyValValValphe 1473

QY 107 CCATTCACGTATTCAGACGCGCTGTGACACTGGCCCTGAGAAATTTGGGAGGCTCTTGG 48
Db 1474 ProcyonleuyserrilevalleuValasnleu-ProgluueuValGlyPhepheleuGl 1493
QY 47 CGAATATTGGATTAACCA 26
Db 1493 ymelasnglupheargleuPro 1500

RESULT 13
US-08-597-236-2
; Sequence 2, Application US/08597236
; Patent No. 5733765
; GENERAL INFORMATION:
; APPLICANT: STINGELE, Francesca
; APPLICANT: MOLETT, Beat
; TITLE OF INVENTION: LACTIC BACTERIA PRODUCING
; TITLE OF INVENTION: EXOPOLYSACCHARIDES
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americans
; City: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/597, 236
; FILING DATE:
; CLASSIFICATION: 426
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95201669.9
; FILING DATE: 20-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fanucci A., Allan
; REGISTRATION NUMBER: 30256
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 484 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-597-236-2

Alignment Scores:
d. No.: 1.73 Length: 484
Score: 63.50 Matches: 22
Percent Similarity: 47.37% Conservative: 14
Best Local Similarity: 28.95% Mismatches: 31
Query Match: 15.23% Indels: 9
Gaps: 3

US-09-049-696-12 (1-235) x US-08-597-236-2 (1-484)

QY 34 TATGCAAAATTTGGCCAGAGCCTCCCA-----ATTCTCAGGCGCAGTGTACAGCC 87
Db 174 TYRASPASNleuyserrilySerlySalmetValleuSerlySerlyrAlaSer 193
QY 88 CTGATTGATCAGT-----AATGAAAAACAGT---ACCTTGGA 126
Db 194 LeuLeuGluservAlaspsersnlyrAlaSerAsnleuLyThrIleTyrrThylys 213
QY 127 CTACTGATTAATGACAGCGTGTGATGCTACTAAGAGTACGCTGTACTCAAGGTAT 186
Db 214 IlelysllylsAsnserAsnserAlaasnGlnValaspserrArlyValPheasnIleTy 233
QY 187 TTCACAACCTTAATGACGAATGTAGATACAGTAAAGTGGGGCT 234
; Sequence 2, Application US/08779113

Db 234 IleSerGlylleAspThrTyrglyProIleSerThrValserArgser 249

RESULT 14
US-08-746-682A-2
; Sequence 2, Application US/08746682A
; Patent No. 5786184
; GENERAL INFORMATION:
; APPLICANT: STINGELE, Francesca
; APPLICANT: MOLETT, Beat
; TITLE OF INVENTION: LACTIC BACTERIA PRODUCING
; TITLE OF INVENTION: EXOPOLYSACCHARIDES
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americans
; City: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/746, 682A
; FILING DATE: 14-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/597, 236
; FILING DATE: 20-JUN-1995
; APPLICATION NUMBER: EP 95201669.9
; FILING DATE: 20-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fanucci A., Allan
; REGISTRATION NUMBER: 30256
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 484 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-746-682A-2

Alignment Scores:
Pred. No.: 1.73 Length: 484
Score: 63.50 Matches: 22
Percent Similarity: 47.37% Conservative: 14
Best Local Similarity: 28.95% Mismatches: 31
Query Match: 15.23% Indels: 9
Gaps: 3

US-09-049-696-12 (1-235) x US-08-746-682A-2 (1-484)

QY 34 TATGCAAAATTTGGCCAGAGCCTCCCA-----ATTCTCAGGCGCAGTGTACAGCC 87
Db 174 TYRASPASNleuyserrilySerlySalmetValleuSerlySerlyrAlaSer 193
QY 88 CTGATTGATCAGT-----AATGAAAAACAGT---ACCTTGGA 126
Db 194 LeuLeuGluservAlaspsersnlyrAlaSerAsnleuLyThrIleTyrrThylys 213
QY 127 CTACTGATTAATGACAGCGTGTGATGCTACTAAGAGTACGCGTGTACTCAAGGTAT 186
Db 214 IlelysllylsAsnserAsnserAlaasnGlnValaspserrArlyValPheasnIleTy 233
QY 187 TTCACAACCTTAATGACGAATGTAGATACAGTAAAGTGGGGCT 234
Db 234 IleSerGlylleAspThrTyrglyProIleSerThrValserArgser 249

RESULT 15
US-08-779-113-2
; Sequence 2, Application US/08779113

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; Patent No. 5948891
; GENERAL INFORMATION:
; APPLICANT: Staunton, Donald E.
; APPLICANT: Harris, Edith S.
; TITLE OF INVENTION: Cytoplasmic Modulators of Integrin
; TITLE OF INVENTION: Binding
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/779,113
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Greta E. No. 5948891and
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/33773
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 857 amino acids
; TYPE: amino acid
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; US-08-779-113-2

Alignment Scores:
Pred. No.: 3.46 Length: 857
Score: 62.00 Matches: 19
Percent Similarity: 45.00% Conservative: 8
Best Local Similarity: 31.67% Mismatches: 19
Query Match: 14.87% Indels: 14
DB: 2 Gaps: 2

09-049-696-12 (1-235) x US-08-779-113-2 (1-857)
UY 16 CCCAGCCCTCGTAGTTATGCAATATTCGCCAGAGGCTCCCAATTCTCAGGGCC 75
Db 1 ProheaspIeuvalIIleProhealvalalarglysgly----- 13
UY 76 AGTGTACAGCCCTGATGAGTATGATGAAATGAAACAGTTACCTTGAACTACTGCGAT 135
Db 14 GlutIethrlglyluvalHlsmetProserglylsthralatlnprogluilevalasp 33
UY 136 AATGAGCAGGCTGCTAGTACTAGAGATAGCGGTGCTACTCAAGGTATTCACAAC 195
Db 34 Asn-----LysaspcllythrvallthrvalargtyralaProthr 46
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Search completed: October 17, 2002, 17:59:37
Job time : 9.60073 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 : Search time 6.88225 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-11

Perfect score: 191

Sequence: 1 GGCTTTGATGACCAAAA.....AACAGGACACCAACCAATT 191

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Archived: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_NA: *
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4: /cgn2_6/ptodata/2/1na/6B_COMB.seq: *
5: /cgn2_6/ptodata/2/1na/PTCUS_COMB.seq: *
6: /cgn2_6/ptodata/2/1na/Backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	191	100.0	3007	US-09-193-562D-27
2	35.8	18.7	3317	US-09-193-562D-1
3	31	16.2	2970	US-09-193-562D-31
4	30.4	15.9	10380	US-09-077-354B-3
5	29	15.2	1123	US-09-188-930-28
6	29	15.2	1123	US-09-188-930-203
7	28.6	15.0	2172	US-08-760-615-1
8	28.2	14.8	3418	US-09-193-562D-29
9	28.2	14.8	3833	US-08-917-320-18
10	28.2	14.8	3833	PCT-US95-04611A-18
11	28.2	14.8	5931	US-08-783-774-1
12	28.2	14.8	17056	US-09-245-041-3
13	27.6	14.5	2619	US-08-337-797A-1
14	27.6	14.5	2619	US-08-337-797A-3
15	27.6	14.5	2619	US-09-258-523-1
16	27.6	14.5	2619	US-09-258-523-3
17	27.2	14.2	3022	US-09-193-562D-33
18	26.8	14.0	11236	US-07-853-913-1
19	26.6	13.9	1920	US-08-186-222-1
20	26.6	13.9	2689	US-08-876-546A-15
21	26.6	13.9	2689	US-09-412-252-15
22	26	13.6	2061	US-08-204-656B-9
23	26	13.6	2061	US-08-470-702-5
24	26	13.6	2061	US-08-467-831-5
25	25.8	13.5	1869	US-09-305-381-1
26	25.8	13.5	2374	US-08-466-589-5
27	25.8	13.5	2374	US-08-700-636-5

28	25.8	13.5	2374	US-08-467-574-5	Sequence 5, Appl
29	25.8	13.5	2374	US-09-217-345-5	Sequence 5, Appl
30	25.8	13.5	4403765	US-09-103-840A-2	Sequence 2, Appl
31	25.8	13.5	4411529	US-09-103-840A-1	Sequence 1, Appl
32	25.6	13.4	1058	US-08-238-163-1	Sequence 1, Appl
33	25.6	13.4	4615	US-08-674-351-3	Sequence 3, Appl
34	25.4	13.3	823	US-08-998-416-493	Sequence 493, App
35	25.4	13.3	2580	US-08-511-853-7	Sequence 7, Appl
36	25.4	13.3	2742	US-08-911-853-16	Sequence 16, Appl
37	25.4	13.3	2742	US-09-479-409-16	Sequence 16, Appl
38	25.4	13.3	2742	US-09-479-453-16	Sequence 16, Appl
39	25.4	13.3	7102	US-09-138-024-20	Sequence 20, Appl
40	25.4	13.3	17612	US-08-911-853-29	Sequence 29, Appl
41	25.4	13.3	17612	US-09-479-409-29	Sequence 29, Appl
42	25.4	13.3	17612	US-09-479-453-29	Sequence 29, Appl
43	25.2	13.2	59065	US-09-813-817-3	Sequence 3, Appl
44	24.8	13.0	168	US-08-697-329-7	Sequence 7, Appl
45	24.8	13.0	1398	US-08-896-320-2	Sequence 2, Appl

ALIGNMENTS

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RESULT 1
US-09-193-562D-27
: Sequence 27, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193, 562D
: PRIOR FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065, 922
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 27
: LENGTH: 3007
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-193-562D-27

Query Match      100.0%: Score 191; DB 4; Length 3007;
Best Local Similarity 100.0%: Pred. No. 3.3e-60;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GGCTTTGATGACCAAAAACACCAAAATGGCTACCTCCAAATCCAGGATTCCTAAG 60
      |||
DB      1667 GGCTTTGATGACCAAAAACACCAAAATGGCTACCTCCAAATCCAGGATTCCTAAG 1726

QY      61  GTTGACATTTGGAATACAGTCTGCACCAAGCTCACAACCTTGACCTGACCTGACG 120
      |||
DB      1727 GTTGACATTTGGAATACAGTCTGCACCAAGCTCACAACCTTGACCTGACCTGACG 1786

QY      121 TCCGCTGGCTGCAAGTACCTGCTCCATTTACAGTCTCCAAAGCAAGCAAGAGC 180
      |||
DB      1787 TCCGCTGGCTGCAAGTACCTGCTCCATTTACAGTCTCCAAAGCAAGCAAGAGC 1846

QY      181 ACCAGCAAAAT 191
      |||
DB      1847 ACCAGCAAAAT 1857

RESULT 2
US-09-193-562D-1
: Sequence 1, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: FILE REFERENCE: 18617.0052
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```

GENERAL INFORMATION:
APPLICANT: Haynes, Joel R
APPLICANT: Schmaljohn, Connie S
APPLICANT: Fuller, Deborah L
APPLICANT: Schmaljohn, Alan
APPLICANT: Jahrling, Peter B
TITLE OF INVENTION: GENETIC INDUCTION OF ANTI-VIRAL IMMUNE
TITLE OF INVENTION: RESPONSE AND GENETIC VACCINE FOR FILOVIRUS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pinckney Street
City: Madison
STATE: WI
COUNTRY: US
ZIP: 53703
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/760,615
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Berson, Bennett J
REGISTRATION NUMBER: 37094
REFERENCE/DOCKET NUMBER: 110229,91241
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2172 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Ebola virus
STRAIN: Zaïre
FEATURE:
NAME/KEY: CDS
LOCATION: 142..2172
OTHER INFORMATION: /product= "Glycoprotein"
US-08-760-615-1

Query Match 15.08; Score 28.6; DB 4; Length 2172;
Best Local Similarity 48.08; Pred. No. 0.89;
Matches 82; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 12 GGACAAAACACGCAAAATGGCGCTACCTCCAAATCCGACGCACTTGCTAAGCTTGGACACTTG 71
Db 1293 GGACAAACGACCCCATATATATACCCGCTGTATTAACCTTGACATCTCTGAGGCAACTCAAGT 1352
QY 72 GAATTAACAGTGTGAAGACAGCTCACAACAACTTGACCTTGACTGTCAAGTCGCGTGC 131
Db 1353 TGAACACATCATCGCAGAAACAGACAAAGACAGACAGCCCTCGACACTCCCTCTGCAC 1412
QY 132 CAATGCTACCTGCGCTCCCAATTACAGTGACTTCCAAAAGAACAGACAGAC 182
Db 1413 GACCGCAGCGGACCCCAAAAAGAGAGAAACACCAACACGAGCAAGAC 1463

RESULT 8
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

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FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 29
LENGTH: 3418
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match
Best Local Similarity 68.4%; Pred. No. 1.6;
Matches 39; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

14.8%; Score 28.2; DB 4; Length 3418;
Best Local Similarity 59.3%; Pred. No. 1.7;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

Query 31 GCCTACCTCCAAATCCAGCATGTGTCAGCTTGAATACAGCTGCGAA 87
DB 1738 GCCCGCTTGCATACAGCATGTGTCAGCATGCTGACTTACAGCTTCCA 1794

ULT 9
08-917-320-18
Sequence 18, Application US/08917320
Patent No. 5824508
GENERAL INFORMATION:
APPLICANT: Spate, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: No. 5824508 Splicing Variants of gp350/220.
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/917,320
FILING DATE: 25-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Luann Cseri
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/000US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
TELEX: 380816 CooleyPA
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
US-08-917-320-18

Query Match
Best Local Similarity 14.8%; Score 28.2; DB 1; Length 3833;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

Query 106 ACCCTGACTGTACAGCTCCGTCGCTCAATGCTACCTGCTCCATTTACAGTACTTCC 165

DB 2583 ACCCCAGCAGTACTACCCCAACCCCAATGCGACAGCCGCCACCCCACTGACTACC 2642
QY 166 AAAACGAAAGACACACCCAGC 186
DB 2643 CCAACCCCAATGCGACACAGC 2663

RESULT 10
PCT-US95-04611A-18
Sequence 18, Application PC/TUS9504611A
GENERAL INFORMATION:
APPLICANT: Spate, Richard and Jackman, Winthrop, T.
TITLE OF INVENTION: Non Splicing Variants of gp350/220
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
STREET: 5 Palo Alto Square
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04611A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/229,291
FILING DATE: April 18, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Luann Cseri
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR-003/000US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5163
TELEFAX: 415-857-0663
TELEX: 380816 CooleyPA
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3833 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1014..3734
PCT-US95-04611A-18

Query Match
Best Local Similarity 14.8%; Score 28.2; DB 5; Length 3833;
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

Query 106 ACCCTGACTGTACAGCTCCGTCGCTCAATGCTACCTGCTCCATTTACAGTACTTCC 165
DB 2583 ACCCCAGCAGTACTACCCCAACCCCAATGCGACAGCCGCCACCCCACTGACTACC 2642
QY 166 AAAACGAAAGACACACCCAGC 186
DB 2643 CCAACCCCAATGCGACACAGC 2663

RESULT 11
US-08-783-774-1
Sequence 1, Application US/08783774
Patent No. 6054130
GENERAL INFORMATION:

OY 135 TGTACCTGCTCCATTACAGTCTCCAAAGCAGACAGCA 188
|||||
Db 2370 CTGTACCGGTAGTACTGAGGTGACATGAGAGGCGCAAGATGCCAGCA 2317

RESULT 14

US-08-337-797A-3/c
Sequence 3, Application US/08337797A
Patent No. 6017697

GENERAL INFORMATION:

APPLICANT: Burnett, J. P.
APPLICANT: Mayne, Nancy G.
APPLICANT: Sharp, Robert L.
APPLICANT: Snyder, Yvonne M.
TITLE OF INVENTION: EXCITATORY AMINO ACID RECEPTOR PROTEIN
TITLE OF INVENTION: AND RELATED NUCLEIC ACID COMPOUNDS
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/337,797A
FILING DATE: No. 6017697ember 14, 1994

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9431
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 2619 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: mRNA
US-08-337-797A-3

Query Match 14.5%; Score 27.6; DB 3; Length 2619;
Best Local Similarity 52.6%; Pred. No. 2.3;

Matches 60; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

OY 75 ATACAGTCTGCAAGCACTACAAACCTTGACCTGACTGTACGTCCTGGGTCAA 134
|||||
Db 2430 AAAGAGGCGACCAAGCAGCAGGAGCGCTGACTGACGACATGCTGTGT 2371
OY 135 TGTACCTGCTCCATTACAGTCTCCAAAGCAGACAGCA 188
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Db 2370 CTGTACCGGTAGTACTGAGGTGACATGAGAGTGGCAAGATGCCAGCA 2317

RESULT 15

US-09-258-523-1/c
Sequence 1, Application US/09258523
Patent No. 6103475

GENERAL INFORMATION:

APPLICANT: Burnett, J. P.
APPLICANT: Mayne, Nancy G.
APPLICANT: Sharp, Robert L.
APPLICANT: Snyder, Yvonne M.
TITLE OF INVENTION: EXCITATORY AMINO ACID RECEPTOR PROTEIN

TITLE OF INVENTION: AND RELATED NUCLEIC ACID COMPOUNDS

NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:

ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana

COUNTRY: United States of America
ZIP: 46285

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/258,523
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/337,797
FILING DATE: No. 6103475ember 14, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9431
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 2619 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 1..2616

US-09-258-523-1

Query Match 14.5%; Score 27.6; DB 3; Length 2619;
Best Local Similarity 52.6%; Pred. No. 2.3;
Matches 60; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

OY 75 ATACAGTCTGCAAGCACTACAAACCTTGACCTGACTGTACGTCCTGGGTCAA 134
|||||
Db 2430 AAAGAGGCGACCAAGCAGCAGGAGCGCTGACTGACGACATGCTGTGT 2371
OY 135 TGTACCTGCTCCATTACAGTCTCCAAAGCAGACAGCA 188
|||||
Db 2370 CTGTACCGGTAGTACTGAGGTGACATGAGAGTGGCAAGATGCCAGCA 2317

Search completed: October 17, 2002, 11:14:37
Job time: 24.8822 secs

GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 5.36485 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-11

Perfect score: 365
Sequence: 1 GGCTTTGAGTGCACCAAAA.....AACAGGACACGCAATTT 191

Scoring table:
BLOSUM62
Xgapop 10.0 , Ygapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO.spool/US09049666/runat_16102002_115821_24739/app_query.fasta_1.13694
-DB=Issued_Patents_AA -OPMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptio -NORM=ext -HEADSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09049666_EGCL1.1_57_@runat_16102002_115821_24739 -NCPU=6 -ICPU=3
-NO_XLPRY -NO_MMAP -LARGEQUERY -NES_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THRAD=51 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/PCFUS.COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	315	86.3	914	4	US-09-193-562D-28
2	153	41.9	795	4	US-09-193-562D-11
3	153	41.9	821	4	US-09-193-562D-12
4	153	41.9	903	4	US-09-193-562D-2
5	151	41.4	903	4	US-09-193-562D-46
6	121.5	33.3	943	4	US-09-193-562D-32
7	115.5	31.6	1000	4	US-09-193-562D-30
8	115	31.5	902	4	US-09-193-562D-34
9	66	18.1	252	2	US-08-414-657D-56
10	66	18.1	252	2	US-08-414-657D-57
11	66	18.1	287	2	US-08-414-657D-48
12	66	18.1	287	2	US-08-414-657D-49

13	66	18.1	304	2	US-08-414-657D-44	Sequence 44, Appl
14	66	18.1	308	2	US-08-414-657D-46	Sequence 46, Appl
15	66	18.1	310	2	US-08-414-657D-45	Sequence 45, Appl
16	66	18.1	315	2	US-08-414-657D-47	Sequence 47, Appl
17	66	18.1	325	2	US-08-414-657D-2	Sequence 2, Appl1
18	66	18.1	325	2	US-08-414-657D-41	Sequence 41, Appl
19	66	18.1	338	2	US-08-414-657D-42	Sequence 42, Appl
20	66	18.1	338	2	US-08-414-657D-43	Sequence 43, Appl
21	66	18.1	338	2	US-08-414-657D-60	Sequence 60, Appl
22	63	17.3	349	3	US-09-009-620-2	Sequence 2, Appl1
23	63	17.3	1375	4	US-09-210-361-4	Sequence 4, Appl1
24	62.5	17.1	470	3	US-09-118-319-8	Sequence 8, Appl1
25	59	16.2	117	4	US-08-525-539A-78	Sequence 78, Appl
26	59	16.2	136	4	US-08-525-539A-63	Sequence 63, Appl
27	59	16.2	774	4	US-09-276-400-7	Sequence 7, Appl1
28	59	16.2	774	4	US-09-448-076-7	Sequence 7, Appl1
29	58.5	16.0	1024	4	US-09-091-117-5	Sequence 5, Appl1
30	58	15.9	333	3	US-08-853-659A-48	Sequence 48, Appl
31	57.5	15.8	235	3	US-08-444-644-19	Sequence 19, Appl
32	57.5	15.8	235	4	US-08-232-246A-19	Sequence 19, Appl
33	57.5	15.8	241	1	US-08-235-838-11	Sequence 11, Appl
34	57.5	15.8	241	2	US-08-465-473B-11	Sequence 11, Appl
35	57.5	15.8	637	1	US-08-235-838-16	Sequence 16, Appl
36	57.5	15.8	637	2	US-08-465-473B-16	Sequence 16, Appl
37	57	15.6	457	3	US-09-142-759-1	Sequence 1, Appl1
38	56.5	15.5	357	1	US-08-078-683A-8	Sequence 8, Appl1
39	56	15.3	168	1	US-08-460-739-5	Sequence 5, Appl1
40	56	15.3	216	3	US-08-928-361B-8	Sequence 8, Appl1
41	56	15.3	666	4	US-08-982-785A-11	Sequence 11, Appl
42	56	15.3	707	2	US-08-949-941B-2	Sequence 2, Appl1
43	56	15.3	1837	3	US-08-928-361B-5	Sequence 5, Appl1
44	55.5	15.2	398	2	US-08-853-659A-45	Sequence 45, Appl
45	55	15.1	278	5	PCT-US94-03744-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
Sequence 28, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/09/193,562D
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 28
LENGTH: 914
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:

Pred. No.: 5.77e-34 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-11 (1-191) x US-09-193-562D-28 (1-914)

QY 1 GGCTTTGAGTGCACCAAAAACCAAAATGGCTTCTCCAAATCCAGCATGTGTAAG 60
DB 541 GlyPheValValaAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGACATTTGGAATACAGTCTGCAAGCAAGCTACACAAACCTTGACCTGCTGTCAGC 120
|||||

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Db 561 ValGlyThrTprLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATTACAGTACTTCCAAAAGAAAGAGC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlThrValThrSerLysThrAsp 600
QY 181 ACCAGCAA 189
Db 601 ThrSerLys 603

RESULT 2
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

```

```

Alignment Scores:
Pred. No.: 2,71e-12 Length: 795
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
Gaps: 2
DB:

```

```
US-09-049-696-11 (1-191) x US-09-193-562D-11 (1-795)
```

```

QY 4 TTGTAGTGCACAA--AACACCAAAATGGCTTACCTCCAAATCCAGGATGCTAG 60
Db 546 PheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACTTGACCTG 111
Db 566 ThrGlyThrTprLysTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThrVal 585
Db 112 ACTGTACAGTCCCGCTGCTCAATGCTACCTGCTCCAAATTACAGTACGACTTCCAAAAG 171
Db 586 ThrValThrThrArgAlaArgSerProThrIleProValIleAlaThrAlaHisMet 605
QY 172 AACAGGACACACAGC 186
Db 606 SerGlnHisThrAla 610

RESULT 3
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12

```

```

; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

```

```

Alignment Scores:
Pred. No.: 2,73e-12 Length: 821
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
Gaps: 2
DB:

```

```
US-09-049-696-11 (1-191) x US-09-193-562D-12 (1-821)
```

```

QY 4 TTGTAGTGCACAA--AACACCAAAATGGCTTACCTCCAAATCCAGGATGCTAG 60
Db 546 PheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACTTGACCTG 111
Db 566 ThrGlyThrTprLysTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThrVal 585
Db 112 ACTGTACAGTCCCGCTGCTCAATGCTACCTGCTCCAAATTACAGTACGACTTCCAAAAG 171
Db 586 ThrValThrThrArgAlaArgSerProThrIleProValIleAlaThrAlaHisMet 605
QY 172 AACAGGACACACAGC 186
Db 606 SerGlnHisThrAla 610

```

```

RESULT 4
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

```

```

Alignment Scores:
Pred. No.: 2,8e-12 Length: 905
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
Gaps: 2
DB:

```

```
US-09-049-696-11 (1-191) x US-09-193-562D-2 (1-905)
```

```

QY 4 TTGTAGTGCACAA--AACACCAAAATGGCTTACCTCCAAATCCAGGATGCTAG 60
Db 546 PheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACTTGACCTG 111
Db 566 ThrGlyThrTprLysTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThrVal 585

```

```

; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:
Pred. No.: 4,66e-08 Length: 943
Score: 121.50 Matches: 28
Percent Similarity: 58.73% Conservative: 9
Best Local Similarity: 44.44% Mismatches: 23
Query Match: 33.29% Indels: 3
DB: 4 Caps: 1

US-09-049-696-11 (1-191) x US-09-193-562D-32 (1-943)
OY 4 TTTGTAGTGACAAAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGTTCAAGTT 63
Db ||| :: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
553 PheThrTrpAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572
OY 64 GGCACTTGGAATACAGTCGTG-----CAACGACGTCCAAACCTGACCCCTACT 114
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
573 GlyHisTrpThrTrpThrLeuAsnAsnThrHisHisSerLeuGlnAlaLeuLysValThr 592
OY 115 GTCAAGTCCCGTGGCTCAATGCTACCCCTGCCTCCAAATTACAGTACGTACCTCCAAAAACGAC 174
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
593 ValThrSerArgAlaSerAsnSerAlaValProProAlaThrValGluAlaPheValGlu 612
OY 175 AAGGACACC 183
Db ::|||:::
613 ArgAspSer 615

```

```

US-09-193-562D-30
; Sequence 30. Application US-/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US-/09/193, 562D
; PRIOR FILING DATE: 1998-11-17
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. NO.:      3e-07      Length:      1000
Score:          115.50     Matches:    24
Percent Similarity: 66.10%   Conservative: 15
Best local Similarity: 40.68% Mismatches:  17
Query Match:    31.64%     Indels:    3
DB:             4         Gaps:        1

US-09-049-696-11 (1-191) x US-09-193-562D-30 (1-1000)
QY       19 AACACCAAAATGGCCTGACTCCACAATGCCAGCATTTGCGTTCAGGTGGCACATTGGGAATAC 78
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db       570 ASnllleargSerAlaIArgIleuArgIIleProclYlIlelaelutlrngIlyIIetPrlrTYr 569
              AGCTGCAGAA-----GCAAGCTCACAAAACCTTGACCCCTGACTGTACAGTCGCCGTGCG 129
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db       590 SerValIArgAsnaSnaSnHstHrlySerGIleuleuVunhrValThrmwetHrArGaIA 609
              TCCAATGCTACCCCTGCTCCCAATTACAGTAGTACTTCGCAAAGAAGAACAGACACCAGC 186
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db       610 ArgserProHrTrHrHleuProvalIlleAlatHrAlahIsseMetwctGlnasnHrAla 628

```

RESULT 8
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Paul, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO: 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34
Alignment Scores:
; No.: 3,41e-07 Length: 902
; Score: 115.00 Matches: 26
; Percent Similarity: 67.31% Conservative: 9
; Best Local Similarity: 50.00% Mismatches: 15
; Query Match: 31.51% Indels: 2
; Gaps: 2
US-09-049-696-11 (1-191) x US-09-193-562D-34 (1-902)
QY 4 TTGTGATGACAAA---AACACCAAAATGCGCTTACCTCAATCCAGCATTGCTAG 60
DB 545 PheGLAspAspIysLeuSnIleatgSerAlaArgLeuGlnIleProglYThrAlaGlu 564
QY 61 GTTGGACTGTGAAACGACTGTGCACAGCAAGC---TCACAAACCTTGACCGCTGATGTC 117
DB 565 ThgIYThrTrpThrYrIserYrThrgIYThrLysSerGlnLeuIleThrMetThrVal 584
QY 118 ACGTCCCGTGCCTCAATGCTACCTGCTCCCAATT 153
DB 585 ThrThrArgAlaArgSerProThrMetGluProLeu 596
RESULT 9
US-08-414-657D-56
; Sequence 56, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:

ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 252 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-414-657D-56
Alignment Scores:
; Pred. No.: 0.897 Length: 252
; Score: 66.00 Matches: 15
; Percent Similarity: 50.98% Conservative: 11
; Best Local Similarity: 29.41% Mismatches: 25
; Query Match: 18.08% Indels: 0
; Gaps: 0
US-09-049-696-11 (1-191) x US-08-414-657D-56 (1-252)
QY 34 TACCTCCAAATCCAGGCACTTGTCTAAGTTGGCACTTGAAATGACGTCGACGACGAC 93
DB 136 IYrLeuGlnIleLeuGlyIleThrArgGlnGlnSerGlyIYrGlnCysIYrAla 155
QY 94 TCACAAACCTTGACCGCTGACGTCGCTGCTCCCAATGCTACCTGCTCAATT 153
DB 156 AsnGluValIserSerAlaAspValIYsGlnValIYsValIYrValAsnTYrProThr 175
QY 154 ACAGTACTTCCAAACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 186
DB 176 IleThrGlnIserLysSerAsnGlnAlaThrThr 186
RESULT 10
US-08-414-657D-57
; Sequence 57, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102

STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-49

Alignment Scores:
Pred. No.: 0.927 Length: 287
Score: 66.00 Matches: 15
Percent Similarity: 50.98% Conservative: 11
Best Local Similarity: 29.418 Mismatches: 25
Query Match: 18.08% Indels: 0
DB: 2 Gaps: 0

US-09-049-696-11 (1-191) x US-08-414-657D-49 (1-287)

QY 34 TACCTCAATCCAGCATTTGCTAGGTTGGCAGCTTGGAAATACAGTCTGCAAGCAGC 93
DB 153 TyleGluValSerSerAlaSpValLysGlnValLysValThrValAsnTyrProPThr 172
QY 94 TCACAAACCTTGACCTGACGTCCAGTCGCCGTCCTCAATGCTACCTGCCTCCAAAT 153
DB 173 AsnGluValSerSerAlaSpValLysGlnValLysValThrValAsnTyrProPThr 192

154 ACAGTGACTTCCAAACGAAAGACAGACACCAGC 186
DB 193 IleThrGluSerLysSerAsnGluAlaThrThr 203

RESULT 13
US-08-414-657D-44
Sequence 44, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414, 657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 304 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-44

Alignment Scores:
Pred. No.: 0.94 Length: 304
Score: 66.00 Matches: 15
Percent Similarity: 50.98% Conservative: 11
Best Local Similarity: 29.418 Mismatches: 25
Query Match: 18.08% Indels: 0
DB: 2 Gaps: 0

US-09-049-696-11 (1-191) x US-08-414-657D-44 (1-304)

QY 34 TACCTCAATCCAGCATTTGCTAGGTTGGCAGCTTGGAAATACAGTCTGCAAGCAGC 93
DB 153 TyleGluValSerSerAlaSpValLysGlnValLysValThrValAsnTyrProPThr 172
QY 94 TCACAAACCTTGACCTGACGTCCAGTCGCCGTCCTCAATGCTACCTGCCTCCAAAT 153
DB 173 AsnGluValSerSerAlaSpValLysGlnValLysValThrValAsnTyrProPThr 192

154 ACAGTGACTTCCAAACGAAAGACAGACACCAGC 186
DB 193 IleThrGluSerLysSerAsnGluAlaThrThr 203

RESULT 14
US-08-414-657D-46
Sequence 46, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414, 657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 308 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-46

Alignment Scores:
Pred. No.: 0.943 Length: 308
Score: 66.00 Matches: 15
Percent Similarity: 50.98% Conservative: 11

Best Local Similarity: 29.41% Mismatches: 25
Query Match: 18.08% Indels: 0
DB: 2 Gaps: 0
US-09-049-696-11 (1-191) x US-08-414-657D-46 (1-308)
QY 34 TACCTCAAAATCCAGGCAATTGCTAAGTTGGCACTTGAATACAGTCTGCAAGCAGC 93
DB 174 TyrLeuGluIleLeuGlyIleThrArgIuGlnSerGlyLysTyrGluCysLysAlaIa 193
QY 94 TCACAACCTTGACCTGACTGTCACGTCGCCGTCCTCAATGCTACCTGCTCCAAAT 153
DB 194 AsnGluValSerSerAlaAspValLysGlnValLysValThrValAsnTyrProProThr 213
QY 154 ACAGTGACTTCCAAAAGCAAGACAGCACCAGC 186
DB 214 IleThrGluSerLysSerAsnGluAlaThrThr 224
SULT 15
US-08-414-657D-45
Sequence 45, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimental, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-45
Alignment Scores:
Pred. No.: 0.945 Length: 310
Score: 66.00 Matches: 15
Percent Similarity: 50.98% Conservative: 11
Best Local Similarity: 29.41% Mismatches: 25
Query Match: 18.08% Indels: 0
DB: 2 Gaps: 0

US-09-049-696-11 (1-191) x US-08-414-657D-45 (1-310)
QY 34 TACCTCAAAATCCAGGCAATTGCTAAGTTGGCACTTGAATACAGTCTGCAAGCAGC 93
DB 153 TyrLeuGluIleLeuGlyIleThrArgIuGlnSerGlyLysTyrGluCysLysAlaIa 172
QY 94 TCACAACCTTGACCTGACTGTCACGTCGCCGTCCTCAATGCTACCTGCTCCAAAT 153
DB 173 AsnGluValSerSerAlaAspValLysGlnValLysValThrValAsnTyrProProThr 192
QY 154 ACAGTGACTTCCAAAAGCAAGACAGCACCAGC 186
DB 193 IleThrGluSerLysSerAsnGluAlaThrThr 203
Search completed: October 17, 2002, 17:59:34
Job time : 7.36485 secs

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Sequence 14, Application US/08804439A
Patent No. 6015565
GENERAL INFORMATION:
APPLICANT: Rose, Timothy M.
APPLICANT: Bosch, Martin L.
TITLE OF INVENTION: GLYCOPROTEIN B OF THE RFHV/KSHV
TITLE OF INVENTION: SUBFAMILY OF HERPES VIRUSES
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Ste 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/804,439A
FILING DATE: February 21, 1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Halle, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09176/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 678-5070
TELEFAX: (619) 678-5099
TELEX:
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 808 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-804-439A-14

Alignment Scores:
Pred. No.: 3.95 Length: 808
Score: 50.50 Matches: 15
Percent Similarity: 50.00% Conservative: 3
Best Local Similarity: 41.67% Mismatches: 9
Query Match: 27.90% Indels: 9
DB: 3 Gaps: 2

09-049-696-17 (1-106) x US-08-804-439A-14 (1-808)

9 CATTTTAAATATGATGGAATGATGAGAGACTGCAGCTGCATATAGC----- 59
|||||
Db 573 HispHelysAnlyrYvAlHisValGlu-----ThleuprovAlasnsnIleSerThr 590
|||||
QY 60 -----CTAGGCGCTGAATTTTGTGCAGATAATAATAAT 95
||| |||||
Db 591 LeuAspThrPheLeuAlaLeuAsnLeuThrPheIleGluAsnIleAsp 606
||| |||||

RESULT 3
US-08-720-229-14
Sequence 14, Application US/087202229
Patent No. 6022542
GENERAL INFORMATION:
APPLICANT: Rose, Timothy M.
APPLICANT: Bosch, Martin L.
TITLE OF INVENTION: GLYCOPROTEIN B OF THE RFHV/KSHV
TITLE OF INVENTION: SUBFAMILY OF HERPES VIRUSES
NUMBER OF SEQUENCES: 100
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster

STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/720, 229
FILING DATE: 26-SEP-1996
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Schiff, J. Michael
REGISTRATION NUMBER: 40,253
REFERENCE/DOCKET NUMBER: 29938-20002.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 808 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-720-229-14

Alignment Scores:
Pred. No.: 3.95 Length: 808
Score: 50.50 Matches: 15
Percent Similarity: 50.00% Conservative: 3
Best Local Similarity: 41.67% Mismatches: 9
Query Match: 27.90% Indels: 9
DB: 3 Gaps: 2

US-09-049-696-17 (1-106) x US-08-720-229-14 (1-808)

9 CATTTTAAATATGATGGAATGATGAGAGACTGCAGCTGCATATAGC----- 59
|||||
Db 573 HispHelysAnlyrYvAlHisValGlu-----ThleuprovAlasnsnIleSerThr 590
|||||
QY 60 -----CTAGGCGCTGAATTTTGTGCAGATAATAATAAT 95
||| |||||
Db 591 LeuAspThrPheLeuAlaLeuAsnLeuThrPheIleGluAsnIleAsp 606
||| |||||

RESULT 4
US-08-468-576B-12
Sequence 12, Application US/08468576B
Patent No. 595345
GENERAL INFORMATION:
APPLICANT: Rabin, Daniel
TITLE OF INVENTION: PANCREATIC ISLET CELL ANTIGENS
TITLE OF INVENTION: OBTAINED BY MOLECULAR CLONING
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sprung Kramer Schaefer & Briscoe
STREET: 660 White Plains Road
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591-5144
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: System 7.5
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468, 576B
FILING DATE: 06-JUN-1995

```

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/239,276
FILING DATE: 05-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/872,646
FILING DATE: 08-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/715,181
FILING DATE: 14-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/441,703
FILING DATE: 04-DEC-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/312,543
FILING DATE: 17-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Kurt G. Briscoe
REGISTRATION NUMBER: 33,141
REFERENCE/DOCKET NUMBER: MDI 251.7-KGB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (914) 332-1700
TELEFAX: (914) 332-1844
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 604 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-468-576B-12

Alignment Scores:
Pred. NO.: 6.6          Length: 604
Score: 49.00           Matches: 8
Percent Similarity: 75.00% Conservative: 7
Best Local Similarity: 40.00% Mismatches: 5
Query Match: 27.07%     Indels: 0
DB: 2                   Gaps: 0

US-09-049-696-17 (1-106) x US-08-468-576B-12 (1-604)
QY 30 GTGATGAGACAGATGCAGCTGTCATATAGCGCTGAATTTTGTGCAGATAAATAA 89
||||| :: :|||:|||||:||||| |||: |||
Db 522 VALSPGLYLSYSESRITILNASHMETOLYLEUNASNCYSAVGAENGLUDS 541
US-08-468-579B-12
Sequence 12, Application US/08468579B
Patent No. 5981700
GENERAL INFORMATION:
APPLICANT: Rabin, Daniel
TITLE OF INVENTION: PANCREATIC ISLET CELL ANTIGENS
TITLE OF INVENTION: OBTAINED BY MOLECULAR CLONING
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sprung Kramer Schaefer & Briscoe
STREET: 660 White Plains Road
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591-5144
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
OPERATING SYSTEM: System 7.5
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,579B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/239,276
FILING DATE: 05-MAY-1994
PRIOR APPLICATION DATA:

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1 APPLICATION NUMBER: US 07/872,646
2 FILING DATE: 08-JUN-1992
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: US 07/715,181
5 FILING DATE: 14-JUN-1991
6 PRIOR APPLICATION DATA:
7 APPLICATION NUMBER: US 07/441,703
8 FILING DATE: 04-DEC-1989
9 PRIOR APPLICATION DATA:
10 APPLICATION NUMBER: US 07/312,543
11 FILING DATE: 17-FEB-1989
12 ATTORNEY/AGENT INFORMATION:
13 NAME: Kurt G. Briscoe
14 REGISTRATION NUMBER: 33,141
15 REFERENCE/DOCKET NUMBER: MDI 251.5-KGB
16 TELECOMMUNICATION INFORMATION:
17 TELEPHONE: (914) 332-1700
18 TELEFAX: (914) 332-1844
19 INFORMATION FOR SEQ ID NO: 12:
20 SEQUENCE CHARACTERISTICS:
21 LENGTH: 604 amino acids
22 TYPE: amino acid
23 TOPOLOGY: linear
24
25 US-08-468-579B-12
26
27 Alignment Scores:
28 Pred. No.: 6.6 Length: 604
29 Score: 49.00 Matches: 8
30 Percent Similarity: 75.00% Conservative: 7
31 Best Local Similarity: 40.00% Mismatches: 5
32 Query Match: 27.07% Indels: 0
33 DB: 2 Gaps: 0
34
35 US-09-049-696-17 (1-106) x US-08-468-579B-12 (1-604)
36
37 QY 30 GTGATGAGACAACCTGCAGCTGCTCAATAGCCTAGCGCTGAATTTTTCACGATAAATAA 89
38 ||||| : : : : : ||| : : : : : ||| : : : : : |||
39 Db 522 ValaspGlyLysSerSerLeuAsnAsnMetGlyLeuAsnSerCysArgAsnGluLys 541
40
41 RESULT 6
42 US-08-468-577B-12
43 Sequence 12. Application US/08468577B
44 Patent No. 6001804
45 GENERAL INFORMATION:
46 APPLICANT: Rablin, Daniel
47 TITLE OF INVENTION: PANCREATIC ISLET CELL ANTIGENS
48 TITLE OF INVENTION: OBTAINED BY MOLECULAR CLONING
49 NUMBER OF SEQUENCES: 19
50 CORRESPONDENCE ADDRESS:
51 ADDRESSEE: Sprung Kramer Schaefer & Briscoe
52 STREET: 660 White Plains Road
53 City: Tarrytown
54 STATE: New York
55 COUNTRY: USA
56 ZIP: 10591-5144
57 COMPUTER READABLE FORM:
58 MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
59 COMPUTER: Apple Macintosh
60 OPERATING SYSTEM: System 7.5
61 SOFTWARE: Wordperfect
62 CURRENT APPLICATION DATA:
63 APPLICATION NUMBER: US/08/468,577B
64 FILING DATE: 06-JUN-1995
65 CLASSIFICATION: 514
66 PRIOR APPLICATION DATA:
67 APPLICATION NUMBER: US 08/239,276
68 FILING DATE: 05-MAY-1994
69 PRIOR APPLICATION DATA:
70 APPLICATION NUMBER: US 07/872,646
71 FILING DATE: 08-JUN-1992
72 PRIOR APPLICATION DATA:
73 APPLICATION NUMBER: US 07/715,181
74 FILING DATE: 14-JUN-1991

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; INFORMATION FOR SEQ ID NO: 6:

C


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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/844,188
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/633,993
FILING DATE: 19-Apr-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-703C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 352-375-8100
TELEFAX: 352-372-5800
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 276 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-844-188-15

Alignment Scores:
Pred. No.: 26 Length: 276
Score: 45.00 Matches: 11
Percent Similarity: 58.62% Conservative: 6
Best Local Similarity: 37.93% Mismatches: 4
Query Match: 24.86% Indels: 8
DB: 3 Gaps: 2

US-09-049-696-17 (1-106) x US-08-844-188-15 (1-276)
QY 15 AAAAATTTT-----CTGGAAGTGGATAGGAGACTGCAGCTGCAATAGC 59
|||||:||||| |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 210 lysserTyrAlaTyrGlnTyrPbGlyThrGlnIleAspGlnIlystHrTrIleIleAsnThr 22
QY 60 CTAGGCGTGAATTTTGTGCAGTAAAT 86
||||| |||||||
Db 230 LeuGlyPhe-----GlnIleAsn 235

RESULT 13
US-08-633-993A-13
; Sequence 13, Application US/08633993A
; Patent No. 6083499
; GENERAL INFORMATION:
; APPLICANT: Narva, Kenneth E.
; APPLICANT: Schnepf, H. Ernest
; APPLICANT: Knuth, Mark
; APPLICANT: Pollard, Michael R.
; APPLICANT: Cardineau, Guy
; APPLICANT: Schwab, George E.
; TITLE OF INVENTION: Pesticidal Toxins
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David R. Sallwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: USA
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/633,993A
; FILING DATE:

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TELEPHONE: 352-375-8100
TELEFAX: 352-372-5800
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 278 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-844-188-13

Alignment Scores:
Pred. No.: 26 Length: 278
Score: 45.00 Matches: 11
Percent Similarity: 58.62% Conservative: 6
Best Local Similarity: 37.93% Mismatches: 4
Query Match: 24.86% Indels: 8
DB: 3 Gaps: 2

US-09-049-696-17 (1-106) x US-08-844-188-13 (1-278)
QY 15 AAAATTAT-----GTGGAAGTGATGAGAACTCAGCGTCATACGC 59
|||::|||
Db 212 LyserryrrrrrryrgutlpglythclnleasplnstrrrrlleleasnThr 233
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QY 60 CTAGAGCTGAATTTTGTCAATAAAT 86
|||||
Db 232 Leuglyphe-----Glnlleasn 237

RESULT 15
US-08-466-343D-9
; Sequence 9, Application US/08466343D
; Patent No. 6025154
GENERAL INFORMATION:
APPLICANT: LI, YI
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING HUMAN G-PROTEIN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVE., NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,343D
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: STEFFEL, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.1150000/EKS/KLM
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-466-343D-9

Alignment Scores:
Pred. No.: 27.1 Length: 344
Score: 45.00 Matches: 9

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Percent Similarity: 58.62% Conservative: 8
 Best Local Similarity: 31.03% Mismatches: 12
 Query Match: 24.86% Indels: 0
 DB: 3 Gaps: 0

US-09-049-696-17 (1-106) x US-08-466-343D-9 (1-344)

QY 6 TCACATTTTAAATAATATGTGGAAGTGATAGGAACTGCAGCTGTCAATAGCCTTAGGG 65
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 Db 258 SerAsnCysGlnSerThrSerGlnLeuAspGlnAlaThrGlnValThrGlnThrLeuGly 277
 QY 66 CTGAAATTTTGTCTCAGATAATAATAAATA 92
 ::::: |||
 Db 278 MetThrHisCysCysIleAsnProIle 286

Search completed: October 17, 2002, 17:59:43
 Job time : 4.97735 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 : Search time 8.71992 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-16

Perfect score: 242

Sequence: 1 GTTATTCCTCCACAGACTC.....ATGTTATTTAGACTTCCTGT 242

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Archived: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued_Patents_NA: *
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3: /cgn2_6/ptodata/2/ina/6A.COMB.seq: *
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq: *
5: /cgn2_6/ptodata/2/ina/PCtUS.COMB.seq: *
6: /cgn2_6/ptodata/2/ina/Backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	228.8	98.7	3007	4	US-09-193-562D-27
2	166.8	68.9	878	1	US-08-469-667-8
3	166.8	68.9	878	4	US-09-224-110-8
4	166.8	68.9	878	5	PCT-US95-07289-8
5	166.8	14.0	805	1	US-08-118-469A-6
6	33.8	14.0	805	1	US-08-909-119-6
7	33.2	13.7	2520	2	US-08-454-557C-50
8	33.2	13.7	2520	2	US-08-340-426D-50
9	33.2	13.7	2520	2	US-08-450-673C-50
10	33.2	13.7	2520	5	PCT-US95-17111A-50
11	33.2	13.7	10684	3	US-08-618-100B-3
12	33.2	13.5	19124	2	US-08-487-826B-13
13	31.6	13.1	6519	1	US-08-233-008A-7
14	30.6	12.6	639	4	US-09-328-111-731
15	30.6	12.6	2018	4	US-08-714-918-16
16	30.6	12.6	2018	4	US-09-265-315-16
17	30.6	12.6	2018	4	US-09-265-315-16
18	30.6	12.6	2018	4	US-09-265-315-16
19	30.6	12.6	2187	2	US-08-679-635A-1
20	30.6	12.6	4248	3	US-08-678-614-1
21	30.4	12.6	1395	1	US-07-991-867B-25
22	30.4	12.6	1395	1	US-08-107-755A-25
23	30.4	12.6	1395	2	US-08-544-332-25
24	30.4	12.6	5433	3	US-08-928-329-1
25	30.4	12.6	6768	3	US-08-107-755A-1
26	30.4	12.6	7488	3	US-08-475-886-3
27	30.4	12.6	8457	1	US-07-991-867B-1

28	30.4	12.6	8457	2	US-08-544-332-1	Sequence 1, Appl1
c 29	30.2	12.5	2757	1	US-08-599-252-90	Sequence 90, Appl1
c 30	30.2	12.5	2757	5	PCT-US96-06352-90	Sequence 90, Appl1
c 31	30.2	12.5	2757	5	PCT-US96-06583-90	Sequence 90, Appl1
c 32	30.2	12.5	7486	3	US-08-475-886-5	Sequence 5, Appl1
c 33	30.2	12.5	7486	4	US-08-397-232-3	Sequence 3, Appl1
c 34	30.2	12.5	7488	3	US-08-475-886-3	Sequence 3, Appl1
c 35	30	12.4	1185	2	US-08-179-557-14	Sequence 14, Appl1
c 36	30	12.4	4279	4	US-08-993-825-1	Sequence 1, Appl1
c 37	29.8	12.3	1415	1	US-08-413-118-127	Sequence 127, App
c 38	29.8	12.3	1415	3	US-08-473-446-127	Sequence 127, App
c 39	29.8	12.3	19124	2	US-08-487-826B-13	Sequence 13, Appl1
c 40	29.6	12.2	1221	1	US-08-445-090-1	Sequence 1, Appl1
c 41	29.6	12.2	1221	4	US-09-286-691-13	Sequence 13, Appl1
c 42	29.6	12.2	1221	4	US-09-687-147-13	Sequence 13, Appl1
c 43	29.6	12.2	7521	4	US-09-004-838-116	Sequence 116, App
c 44	29.6	12.2	10815	4	US-09-004-838-21	Sequence 21, Appl1
c 45	29.6	12.2	13149	4	US-09-004-838-87	Sequence 87, Appl1

ALIGNMENTS

RESULT 1		US-09-193-562D-27	US-09-193-562D-27
; Sequence 27, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; FILE REFERENCE: 18617 0052			
; CURRENT APPLICATION NUMBER: US/09/193,562D			
; CURRENT FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 27			
; LENGTH: 3007			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; US-09-193-562D-27			
Query Match		98.7%; Score 238.8; DB 4; Length 3007;	
Best Local Similarity		99.2%; Pred No. 4.4e-58;	
Matches 240; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	1	GTATTCCTCCACAGACTCCGCGAGAGACACTAGTCTGATGAAGCTCTGCTCTTG	60
DB	2638	GTATTCCTCCACAGACTCCGCGAGAGACACTAGTCTGATGAAGCTCTGCTCTTG	2697
QY	61	TCCTATATTCATATCAACAGACCAATTCCTGCGATTCACATTTTAAATTAATGCGAA	120
DB	2638	TCCTATATTCATATCAACAGACCAATTCCTGCGATTCACATTTTAAATTAATGCGAA	2757
QY	121	GTGATGAGAGACGACGCTGCAATAGCCCTAGGGCTGAATTTTGGCAGTAATAATA	180
DB	2758	GTGATGAGAGACGACGCTGCAATAGCCCTAGGGCTGAATTTTGGCAGTAATAATA	2817
QY	181	ATTAATTCATTCCTTTTGTGATTAATAATTTTCAAAATGTAATTTAGACTTCCT	240
DB	2818	ATTAATTCATTCCTTTTGTGATTAATAATTTTCAAAATGTAATTTAGACTTCCT	2877
QY	241	GT 242	
DB	2878	GT 2879	
RESULT 2		US-08-469-667-8	
; Sequence 8, Application US/08469667			
; Patent No. 5733748			
; GENERAL INFORMATION:			

APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: Stewart & Olstein
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-08-469-667-8

Query Match 68.9%; Score 166.8; DB 1; Length 878;
Best Local Similarity 91.6%; Pred. No. 4.5e-38;
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 1 GTTATTCCTCCACAGACTCCGCCAGACACCTAGTCCGTAAGACGTCCTCCCTG 60
DB 625 GTTATTCCTCCACAGACTCCGCCAGACACCTAGTCCGTAAGACGTCCTCCCTG 684
QY 61 T-CCTAATATTCATATCAACAGACACCTTCCTGCATTACATTTTAAATATGTGA 119
DB 685 TCCCTAATATTCATATCAACAGACACCTTCCTGCATTACATTTTAAATATGTGA 744
QY 120 AGTGATAGAGAGACTGCAGCTGTCAATAGCCTAGGCGTGAATTTTTCAGATAAATA 179
DB 745 AGTGATAGAGAGACTGCAGCTGTCAATAGCCTAGGCGTGAATTTTTCAGATAAATA 803
QY 180 AATAAATCATTCATCCTTTTGTGATTAATAA 213
DB 804 AATAAATCATTCATCCTTTTGTGATTAATAA 837

RESULT 3
US-09-224-110-8
Sequence 8, Application US/09224110
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: Stewart & Olstein
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739

STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-09-224-110-8

Query Match 68.9%; Score 166.8; DB 4; Length 878;
Best Local Similarity 91.6%; Pred. No. 4.5e-38;
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 1 GTTATTCCTCCACAGACTCCGCCAGACACCTAGTCCGTAAGACGTCCTCCCTG 60
DB 625 GTTATTCCTCCACAGACTCCGCCAGACACCTAGTCCGTAAGACGTCCTCCCTG 684
QY 61 T-CCTAATATTCATATCAACAGACACCTTCCTGCATTACATTTTAAATATGTGA 119
DB 685 TCCCTAATATTCATATCAACAGACACCTTCCTGCATTACATTTTAAATATGTGA 744
QY 120 AGTGATAGAGAGACTGCAGCTGTCAATAGCCTAGGCGTGAATTTTTCAGATAAATA 179
DB 745 AGTGATAGAGAGACTGCAGCTGTCAATAGCCTAGGCGTGAATTTTTCAGATAAATA 803
QY 180 AATAAATCATTCATCCTTTTGTGATTAATAA 213
DB 804 AATAAATCATTCATCCTTTTGTGATTAATAA 837

RESULT 4
PCT-US95-07289-8
Sequence 8, Application PC/TUS9507289
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: Stewart & Olstein
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
PCT-US95-07289-8
```

```
Query Match 68.9%; Score 166.8; DB 5; Length 878;
Best Local Similarity 91.6%; Pred. No. 4.5e-38;
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;
```

```
QY 1 GTTATTCCTCCACAGACTCCGCCGAGACACACCTGCTCATGTAAGCTGCTCCTTG 60
DB 625 GTTATTCCTCCACAGACTCCGCCGAGACACACCTGCTCATGTAAGCTGCTCCTTG 684
QY 61 T-CTAATATTCATATCAACAGACACCATCTCGCATTCACATTTAAATTTATGTGA 119
DB 685 TGCCAAATATTCATATCAACAGACACCATCTCGCATTCACATTTAAATTTATGTGA 744
QY 120 AGTGATAGGAGAGACTGCAGCTGTCATATAGCCTAGGCTGAATTTTGTCAAGATAATAA 179
DB 745 AGTGATAGGAGAGACTGCAGCTGTCATATAGCCTAGGCTGAATTTTGTGCGGTGAAT-A 803
QY 180 AATAATCATCATCCTTTTGTGATTATATAA 213
804 AATAATCATCATCCTTTTGTGATTATATAA 837
```

```
RESULT 5
US-08-118-469A-6
Sequence 6, Application US/08118469A
Patent No. 5656451
GENERAL INFORMATION:
APPLICANT: Flavell, Richard A.
APPLICANT: Fikrig, Erol
APPLICANT: Lam, Tuan T.
APPLICANT: Kantor, Fred S.
APPLICANT: Barthold, Stephen W.
TITLE OF INVENTION: NOVEL B. BURGDOFFERI POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: C/O FISH & NEAVE
STREET: 1251 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.25
```

```
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,469A
FILING DATE: 08-SEP-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,757
FILING DATE: 30-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Haley Jr., James F.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: YU-102C1P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEFAX: (212) 596-9090
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 805 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 130..711
US-08-118-469A-6
```

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Query Match 14.0%; Score 33.8; DB 1; Length 805;
Best Local Similarity 49.7%; Pred. No. 0.8;
Matches 86; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
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QY 70 TCATATCAACAGCACCATTCTCGCATTCACATTTAAATTTATGTGAAGTGATAGG 129
DB 1 TCATATTAATAGACCTCTGTTTCATTTAATTTAATTTAAGTGATAGG 60
QY 130 AGAATGAGCGTCATATAGCCTAGGCTGAATTTTGTCAATATAATAATATCAT 189
DB 61 AATATAATTTATTTATTTAACTTACTTTTAAATTTAATATGATTAATAATTAAGG 120
QY 190 TCATCCTTTTGTGATTATATAAATTTCTAAATGTAATTTAGACTTCCTGT 242
DB 121 AGAATTTTATGATATAAAATGTTTAAACATTTTGTCAATTCCTTTT 173
```

```
RESULT 6
US-08-909-119-6
Sequence 6, Application US/08909119
Patent No. 5807685
GENERAL INFORMATION:
APPLICANT: Flavell, Richard A.
APPLICANT: Fikrig, Erol
APPLICANT: Lam, Tuan T.
APPLICANT: Kantor, Fred S.
APPLICANT: Barthold, Stephen W.
TITLE OF INVENTION: NOVEL B. BURGDOFFERI POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: C/O FISH & NEAVE
STREET: 1251 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/909,119
FILING DATE: 11-AUG-1997
CLASSIFICATION: 435
```

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/118,469
 FILING DATE: 08-SEP-1993
 APPLICATION NUMBER: US 08/099,757
 FILING DATE: 30-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Haley Jr., James F.
 REGISTRATION NUMBER: 27,794
 REFERENCE/DOCKET NUMBER: YI-102CIP
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 596-9000
 TELEFAX: (212) 596-9090
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 805 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 130..711
 US-08-909-119-6

Query Match	Similarity	14.0%;	Score 33.8;	DB 1,	Length 805;
Best Local	Similarity	49.7%;	Pred. No. 0.8;		
Matches	86;	Conservative	0;	Mismatches	87;
				Indels	0;
				Gaps	0;
Qy	70	TCATATCAACAGCACCATTCTGCGCATTCACATTTTAAATAATTAATGAGAGTATAGG	129		
Db	1	TCATATTAATTAAGACCTCCTCGTTTCATTTTAACATTTTAATGTTTTTAAGAGGTACAA	60		
Qy	130	AGAACTGACGCTGTCATTAAGCCTAGGCGTGAATTTTGCACAGTAAATTAATTAATCAT	189		
Db	61	AAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAGG	120		
Qy	190	TCATCCTTTTTTTTGATTAATAAATTTCTAAATAAGTATATTAGACTTCCTGT	242		
Db	121	AGATTTTATGTAATAAATGCTTTTAAAACTAATTTTGCATTTGCTTTT	173		

RESULT 7
 US-08-454-557C-50/C
 ; Sequence 50, Application US/08454557C
 ; Patent No. 5830670
 ; GENERAL INFORMATION:
 ; APPLICANT: de la Monte, Suzanne
 ; APPLICANT: Mandis, Jack R.
 ; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
 ; TITLE OF INVENTION: of Alzheimer's Disease
 ; NUMBER OF SEQUENCES: 121
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
 ; STREET: 1100 New York Avenue, Suite 600
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005-3934
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/454,557C
 ; FILING DATE: 30-MAY-1995
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Ludwig, Steven R.
 ; REGISTRATION NUMBER: 36,203
 ; REFERENCE/DOCKET NUMBER: 0609,3840003

```

TELECOMMUNICATION INFORMATION
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 2520 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both

```

[illegible]

RESULT 8
 US-08-340-426D-50/c
 Sequence 50, Application US/08340426D
 Patent No. 5948634
 GENERAL INFORMATION:
 APPLICANT: de la Monte, Suzanne
 APPLICANT: Wands, Jack R.
 TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
 TITLE OF INVENTION: of Alzheimer's Disease
 NUMBER OF SEQUENCES: 121
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
 STREET: 1100 New York Avenue, Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005-3934
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/340,426D
 FILING DATE: 14-NOV-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Ludwig, Steven R.
 REGISTRATION NUMBER: 36,203
 REFERENCE/DOCKET NUMBER: 0609.3840002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 50:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2520 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: both

	Query Match	13 %;	Score 33.2;	DB 2;	Length 2520;	
	Best Local Similarity	57.8%;	Pred. No. 1.7;			
	Matches 59;	Conservative	0;	Mismatches 43;	Indels 0;	Gaps 0
OY	93 GCATTTCACATTTTAAAAATATGTCGAAGCGTAGAGAACAATGCACCTCATATACCT	152				
Db	2412 GAACACACTGCTTTAAATATATCAGCAGGGAGGAGAGGCGGTCAATTTCACCTCACAAAACCTA	2353				

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/558,588
FILING DATE: October 30, 1995
APPLICATION NUMBER: 08/510,584
FILING DATE: August 2, 1995
APPLICATION NUMBER: 08/418,096
FILING DATE: April 5, 1995
APPLICATION NUMBER: 08/408,584
FILING DATE: March 20, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 219/075
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 10684 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: Sequence between exon 1 and exon 2
Patent No. 6068976
US-08-618-100B-3

Query Match 13.7%; Score 33.2; DB 3; Length 10684;
Best Local Similarity 59.6%; Pred. No. 2.6;
Matches 56; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 138 AGCTGCAATAGCTAGGCTGATTTTGTGACATAAATAAATTAATCATTCACCTT 197
DB 9399 AGATGGCAATTTAGTAGATTCATTTCTGGCAATACAAATAAACAAGCAGCTGTCTA 9340
QY 198 TTTTGTATTATAAATTTCTAATAATGTAATTT 231
DB 9339 TATATTATTATATGTTTGTCAACAGCAGT 9306

RESULT 12
US-08-487-826B-13
Sequence 13, Application US/08487826B
Patent No. 5993827
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellens, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Israelsen, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 19124 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-487-826B-13

Query Match 13.5%; Score 32.6; DB 2; Length 19124;
Best Local Similarity 53.5%; Pred. No. 4.7;
Matches 68; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 101 ATTTTAAATTTATGTCGAGTGGATGAGAACTGCGACCTGCAATAGCGCTGCA 160
DB 3714 ATAAATATTATTATTATAGATGATTTAGTGATGATTTAATAAATACCTATTGAGA 3773
QY 161 ATTTTGTCAATATAAATAAATCAATTCATCTTTTGTGATTATAAATTTCTA 220
DB 3774 GAATAGAACATTAATATATATTAATAATGAAGAACTTCATTTATGTATATATAT 3833
QY 221 AATGTA 227
DB 3834 AAAATA 3840

RESULT 13
US-08-233-008A-7/C
Sequence 7, Application US/08233008A
Patent No. 5578480
GENERAL INFORMATION:
APPLICANT: Khandke, Kiran M.
TITLE OF INVENTION: Methods For The Isolation And
TITLE OF INVENTION: Purification Of The Recombinantly Expressed chondroitinase
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: American Cyanamid Company
STREET: One Cyanamid Plaza
CITY: Wayne
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07470-8426
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/233,008A
FILING DATE: 22-APR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gordon, Alan M.
REGISTRATION NUMBER: 30,637
REFERENCE/DOCKET NUMBER: 31,885-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-831-3244
TELEFAX: 201-831-3305
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 6519 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 3238..6276
US-08-233-008A-7

Query Match
Best Local Similarity 58.5%; Score 31.6; DB 1; Length 6519;
Matches 53; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 141 TGTCAATAGCCCTAGGCGCTGATTTTGTGATATAATAATAATCAATCATCTTTT 200
DB 6414 TATCATATATAAGCATGATTTTATTTTTCATAATTAATTCATCTGTTAA 6355

QY 201 TTGATATATAATTTTCTAAATGTATTTTGA 234
6354 CTTGTTTTTAAATTTTAAATAAAGACTCGA 6321

RESULT 14

US-09-328-111-731/C
Sequence 731, Application US/09328111
Patent No. 6262333
GENERAL INFORMATION:
APPLICANT: Endege, Wilson O.
APPLICANT: Steinmann, Kathleen E.
APPLICANT: Astle, Jon H.
APPLICANT: Burgess, Christopher C.
APPLICANT: Bushnell, Steven E.
APPLICANT: Carroll III, Eddie
APPLICANT: Catino, Theodore J.
APPLICANT: Dertl, Adnan
APPLICANT: Ford, Donna M.
APPLICANT: Lewis, Marcia E.
APPLICANT: Monahan, John E.
APPLICANT: Schlegel, Robert
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
TITLE OF INVENTION: PRODUCTS
FILE REFERENCE: CCD-257 (US)
CURRENT APPLICATION NUMBER: US/09/328,111
CURRENT FILING DATE: 1999-06-08
EARLIER APPLICATION NUMBER: US 60/088,801
EARLIER FILING DATE: 1998-06-10
NUMBER OF SEQ ID NOS: 850
SOFTWARE: fastSeq for Windows Version 3.0
SEQ ID NO 731
LENGTH: 639
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(639)
OTHER INFORMATION: n = A,T,C or G
US-09-328-111-731

Query Match
Best Local Similarity 12.6%; Score 30.6; DB 4; Length 639;
Matches 75; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 83 ACCATTCCTGGCATGCACATTTTAAATAATATGATGGAAGTATGAGAAACGACGCTG 142
DB 334 ACAATTCCTTAATGCCCTCTAGGGTTTGAAGGAGGAGGAAATGTGGACATG 275
QY 143 TCAATAGCCTAGGCGCTGATTTTGTGATATAATAATAATCAATCATCTTTT 202
DB 274 TGCATCAAAAGGAGATTTTCTCCATATATAAAGTCACACGTCACCTTACTA 215
QY 203 TGAATATAAATTTTCTAAATGTATTTT 231
DB 214 TGTTTGGCAATAGCCAGATTTTATCT 186

RESULT 15

US-08-714-918-16
Sequence 16, Application US/08714918
Patent No. 6037123
GENERAL INFORMATION:

APPLICANT: Benton, Bret
APPLICANT: Lee, Ving
APPLICANT: Malouin, Francois
APPLICANT: Martin, Patrick K.
APPLICANT: Schmid, Molly B.
APPLICANT: Sun, Dongxu
TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL
TITLE OF INVENTION: TARGET GENES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/714,918
FILING DATE: September 13, 1996
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/009,102
FILING DATE: December 22, 1995
APPLICATION NUMBER: 60/003,798
FILING DATE: September 15, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Waidburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 222/005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2018 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-714-918-16

Query Match
Best Local Similarity 12.6%; Score 30.6; DB 3; Length 2018;
Matches 54; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 130 AGAAGTCAGCTGTCATATAGCTAGGCGCTGAATTTTGTGATATAATAATAATCAT 189
DB 943 AAAATACGACATTAATTTTGTGATACATAAATTTTGTGCTGAATAAATTCATTAAG 1002
QY 190 TCATCTTTTGTGATATATAAATTTTCTAA 222
DB 1003 TCATCTCTCGTGTGATATTCCTGCTGTAA 1035

Search completed: October 17, 2002, 11:15:00
JOD time : 16.7199 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 6.79735 Seconds

(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-16

Perfect score: 421
Sequence: 1 GTTATTCCTCCACAGACTC.....ATGATTTTATGACTTCCTGT 242

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters: -DEV-xlh
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-DB-Issued_Patents_AA -QEMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=Dlosum62 -TRANS=human40.cdi
-LIST=45 -DOCCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTPMT=ptc -NOR=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
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-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELop=6 -DELEXT=7

Database : Issued Patents AA:*

- 1: /cgn2.6/ptodata/2/1aa/5A.COMB.pep:*
- 2: /cgn2.6/ptodata/2/1aa/5B.COMB.pep:*
- 3: /cgn2.6/ptodata/2/1aa/6A.COMB.pep:*
- 4: /cgn2.6/ptodata/2/1aa/6B.COMB.pep:*
- 5: /cgn2.6/ptodata/2/1aa/PCtus.COMB.pep:*
- 6: /cgn2.6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	278	66.0	914	4	US-09-193-562D-28
2	116	27.6	228	1	US-08-469-667-9
3	116	27.6	228	4	US-09-224-110-9
4	116	27.6	228	5	PCT-US95-07289-9
5	63	15.0	910	4	US-08-460-269C-2
6	63	15.0	911	4	US-08-460-269C-4
7	63	15.0	922	4	US-08-460-269C-6
8	62.5	14.8	505	4	US-08-426-509A-17
9	62.5	14.8	505	4	PCT-US95-05008-17
10	61	14.5	214	1	US-08-217-327-4
11	61	14.5	933	2	US-08-313-200-1
12	61	14.5	933	5	PCT-US93-03837-1

13	61	14.5	1070	3	US-08-922-635-22	Sequence 22, Appl
14	60.5	14.4	878	4	US-09-141-212-8	Sequence 8, Appl
15	60.5	14.4	878	4	US-09-561-138-8	Sequence 8, Appl
16	60	14.3	197	4	US-08-936-165A-509	Sequence 509, App
17	60	14.4	408	2	US-08-742-440A-6	Sequence 6, Appl
18	59	14.0	323	4	US-09-029-213B-25	Sequence 25, Appl
19	58	13.9	1584	4	US-09-251-645-6	Sequence 6, Appl
20	57	13.5	1079	3	US-09-058-469-22	Sequence 22, Appl
21	57	13.5	1240	3	US-09-058-469-23	Sequence 23, Appl
22	57	13.5	1347	3	US-09-058-469-24	Sequence 24, Appl
23	56	13.3	348	3	US-08-413-655-5	Sequence 3, Appl
24	56	13.3	348	3	US-08-415-655-13	Sequence 13, Appl
25	56	13.3	348	3	US-08-415-655-15	Sequence 15, Appl
26	56	13.3	447	4	US-09-378-255-2	Sequence 2, Appl
27	56	13.3	447	4	US-09-715-336-2	Sequence 2, Appl
28	56	13.3	475	4	US-09-251-372-2	Sequence 2, Appl
29	56	13.3	475	4	US-09-811-241-2	Sequence 2, Appl
30	56	13.3	574	4	US-09-552-351-2	Sequence 2, Appl
31	56	13.3	574	4	US-09-802-839-2	Sequence 2, Appl
32	56	13.3	786	4	US-09-103-429A-3	Sequence 3, Appl
33	56	13.3	805	4	US-09-103-429A-4	Sequence 4, Appl
34	56	13.3	879	4	US-09-141-212-6	Sequence 6, Appl
35	56	13.3	879	4	US-09-561-138-6	Sequence 6, Appl
36	56	13.3	880	2	US-08-916-917-12	Sequence 12, Appl
37	56	13.3	880	3	US-09-225-170-12	Sequence 12, Appl
38	56	13.3	880	4	US-09-378-255-6	Sequence 6, Appl
39	56	13.3	880	4	US-09-141-212-2	Sequence 2, Appl
40	56	13.3	880	4	US-09-141-212-4	Sequence 4, Appl
41	56	13.3	880	4	US-09-552-351-4	Sequence 4, Appl
42	56	13.3	880	4	US-09-251-372-6	Sequence 6, Appl
43	56	13.3	880	4	US-09-561-138-2	Sequence 2, Appl
44	56	13.3	880	4	US-09-561-138-4	Sequence 4, Appl
45	56	13.3	880	4	US-09-715-336-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent NO. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617/0052
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/09/193, 562D
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 1,1e-28 Length: 914
Score: 278.00 Matches: 50
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.03% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-16 (1-242) x US-09-193-562D-28 (1-914)
QY 2 TTTATTCCTCCACAGACGCGACAGACCTATCCGATGGAAGCGTGCCTCTGT 61
DB 865 PheilleProPglInrhrProProGluThrProSerProAspGluThrSerIaIaProGys 884
QY 62 CCTAATATTCATATCAGACGACGACATTCCTGCATTCATTTAAATAATATGTGGAAG 121
|||||

DB 885 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLys 904
QY 122 TGGATAGAGACTGCAGCTGTCAATAGCC 151
DB 905 TrrIleGlyIleuLeuGlnLeuSerIleAla 914

RESULT 2
US-08-469-667-9
; Sequence 9, Application US/08469667
; Patent No. 5733748
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/469,667
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-435
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 228 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-469-667-9

Alignment Scores:
Pred. No.: 2.33e-07 Length: 228
Score: 116.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.55% Indels: 0
Gaps: 0

US-09-049-696-16 (1-242) x US-08-469-667-9 (1-228)

QY 2 TTTATTCCGTCAGACACTGCAGACACTAGTCCGATGATGAACGTCCTCCTGT 61
DB 209 PhelIeProGlnThrProGlnThrProSerProAspIuThrSerAlaProCys 228

RESULT 3
US-09-224-110-9
; Sequence 9, Application US/09224110
; Patent No. 6337195
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.

STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-224-110-9

Alignment Scores:
Pred. No.: 2.33e-07 Length: 228
Score: 116.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.55% Indels: 0
Gaps: 0

US-09-049-696-16 (1-242) x US-09-224-110-9 (1-228)

QY 2 TTTATTCCGTCAGACACTGCAGACACTAGTCCGATGATGAACGTCCTCCTGT 61
DB 209 PhelIeProGlnThrProGlnThrProSerProAspIuThrSerAlaProCys 228

RESULT 4
PCT-US95-07289-9
; Sequence 9, Application PCT/US9507289
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.

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      : REGISTRATION NUMBER: 36,134
      : REFERENCE/DOCKET NUMBER: 325800-265
      : TELECOMMUNICATION INFORMATION:
      :   TELEPHONE: 201-994-1700
      :   TELEFAX: 201-994-1744
      : INFORMATION FOR SEQ ID NO: 9:
      : SEQUENCE CHARACTERISTICS:
      : LENGTH: 228 amino acids
      : TYPE: amino acid
      : TOPOLOGY: linear
      : MOLECULE TYPE: protein
PCT-US95-07289-9

Alignment Scores:
Pred. No.:          2.33e-07           Length:          228
Score:              116.00            Matches:          20
Percent Similarity: 100.00%           Conservative:    0
Best Local Similarity: 100.00%        Mismatches:     0
Very Match:         27.55%            Indels:          0
DB:                  Gaps:             0

US-09-049-696-16 (1-242) x PCT-US95-07289-9 (1-228)

Oy       2 TTTATTCCTCAGACGACCGCCAGACGACCTAGTGTGAAGAAGTGCTGCCTTGT 61
          |||
Db       209 PhelleProptoglInHrPrroglInHrProserProaspGIunHrSerAlaprocys 228

RESULT 5
US-08-460-269C-2
: Sequence 2, Application US/08460269C
: Patent No. 6197548
: GENERAL INFORMATION:
: APPLICANT: CLARE, JEFFREY J.
:             ROMANOS, MICHAEL A.
: TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN YEAST
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
: STREET: 2200 Clarendon Blvd., Suite 1400
: CITY: ARLINGTON
: STATE: VA
: COUNTRY: USA
: ZIP: 22201
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/460,269C
: FILING DATE: 02-Jun-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: lebovitz, Richard M.
: REGISTRATION NUMBER: 37,067
: REFERENCE/DOCKET NUMBER: Popov-2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703) 243-6333
: TELEFAX: (703) 243-6410
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 910 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-08-460-269C-2

Alignment Scores:
Pred. No.:          2.96                Length:          910
Score:              63.00               Matches:          19
Percent Similarity: 47.46%             Conservative:     9
Best Local Similarity: 32.20%          Mismatches:     15

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Query Match: 14.96% Indels: 16
DB: 4 Gaps: 4

US-09-049-696-16 (1-242) x US-08-460-269C-2 (1-910)

QY 8 CCTCCACAGACTCCGCAGACACCTAGTCTGAT-----GAAAGCTCT 52
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Db 588 ProProGlnAProGlnProGluAlaProAlaProGlnProProAlaGlyAArgGluLeuSer 607
QY 53 GCTCCTGTCTCCAAATATATCATATCAACAGCACCATTCTGGCATTCACATTTAAAAATT 112
   |||  |||  ::|||::  ||:::  ::
Db 608 Ala---AlaAlaAsnAlaAlaValAsnThr-----GlyGlyValGlyLeuAlaSerThr 624
QY 113 ATGGG-----AAGTGATAGAGACTGCACCTGTCA 145
   ::|||  |||  ::|||  |||  ::|||  |||  ::|||  |||  ::|||  |||  ::
Db 625 LeuTrpTyrAlaGluSerAsnAlaLeuSerLysArgLeuGlyGluLeuArgLeuAsn 643

RESULT 6
US-08-460-269C-4
: Sequence 4, Application US/08460269C
: Patent No. 6197548
: GENERAL INFORMATION:
: APPLICANT: CLARE, JEFFREY J.
: ROMANOS, MICHAEL A.
: TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN YEAST
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
: STREET: 2200 Clarendon Blvd., Suite 1400
: CITY: ARLINGTON
: STATE: VA
: COUNTRY: USA
: ZIP: 22201
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/460,269C
: FILING DATE: 02-Jun-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Lebovitz, Richard M.
: REGISTRATION NUMBER: 37,067
: REFERENCE//DOCKET NUMBER: Popov-2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703) 243-6333
: TELEFAX: (703) 243-6410
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 911 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-08-460-269C-4

Alignment Scores:
Pred. NO.: 2.96 Length: 911
Score: 63.00 Matches: 19
Percent Similarity: 47.46% Conservative: 9
Best Local Similarity: 32.20% Mismatches: 15
Query Match: 14.96% Indels: 16
DB: 4 Gaps: 4

US-09-049-696-16 (1-242) x US-08-460-269C-4 (1-911)

QY 8 CCTCCACAGACTCCGCAGACACCTAGTCTGAT-----GAAAGCTCT 52
   |||||  |||||  |||::|||  |||  |||
Db 589 ProProGlnAProGlnProGluAlaProAlaProGlnProProAlaGlyAArgGluLeuSer 608
QY 53 GCTCCTGTCTCCAAATATATCATATCAACAGCACCATTCTGGCATTCACATTTAAAAATT 112
   |||  |||  ::|||::  ||:::  ::

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DB 609 Ala---AlaAlaAsnAlaAlaValAsnThr-----GlyGlyValGlyLeuAlaSerThr 625
QY 113 ATGTGG-----AAGTGGATAGAGAGACTGCAGCTGTCA 145
DB 626 LeuTrpTyrAlaGluSerAsnAlaLeuSerLysArgLeuGlyGlyLeuLeuArgLeuAsn 644
RESULT 7
US-08-460-269C-6
Sequence 6, Application US/08460269C
Patent No. 6197548
GENERAL INFORMATION:
APPLICANT: CLARE, JEFFREY J.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN YEAST
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
STREET: 2200 Clarendon Blvd., Suite 1400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,269C
FILING DATE: 02-Jun-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
REFERENCE/DOCKET NUMBER: Popov-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 243-6333
TELEFAX: (703) 243-6410
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 922 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-08-460-269C-6
Alignment Scores:
Pred. No.: 2,96 Length: 922
Score: 63.00 Matches: 19
Percent Similarity: 47.46% Conservative: 9
Best Local Similarity: 32.20% Mismatches: 15
Query Match: 14.96% Indels: 16
Gaps: 4
US-09-049-696-16 (1-242) x US-08-460-269C-6 (1-922)
QY 8 CCTCCAGAGACTCCGCCAGAGACCTAGTCTGAT-----GAAACGTCT 52
DB 600 ProProGlnArgGlnProGlnAlaProAlaProAlaGlyArgGluLeuSer 619
QY 53 GCTCCTGTCTCATATTCATCAACGACCATTCCTGCATTCACATTTAAATTT 112
DB 620 Ala---AlaAlaAsnAlaAlaValAsnThr-----GlyGlyValGlyLeuAlaSerThr 636
QY 113 ATGTGG-----AAGTGGATAGAGAGACTGCAGCTGTCA 145
DB 637 LeuTrpTyrAlaGluSerAsnAlaLeuSerLysArgLeuGlyGlyLeuLeuArgLeuAsn 655
RESULT 8
US-08-426-509A-17
Sequence 17, Application US/08426509A

Patent No. 6326469
GENERAL INFORMATION:
APPLICANT: Villrich, Axel
APPLICANT: Gishizsky, Mikhail
APPLICANT: Sures, Irman G.
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
TITLE OF INVENTION: TYROSINE KINASES
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York,
STATE: NY
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,509A
FILING DATE: 21-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 08/232,545
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-0074-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 505 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
US-08-426-509A-17
Alignment Scores:
Pred. No.: 3,14 Length: 505
Score: 62.50 Matches: 14
Percent Similarity: 48.28% Conservative: 0
Best Local Similarity: 48.28% Mismatches: 14
Query Match: 14.85% Indels: 1
Gaps: 1
US-09-049-696-16 (1-242) x US-08-426-509A-17 (1-505)
QY 11 CCACAGACTCCGCCAGAGACCTAGTCTGATTCCTGCTATATTT 70
DB 25 ProHisCysProValTyrAlaProAspProThrSerThrIleLysProGlyProAsnSer 44
QY 71 CATATCAACAGACCATTCCTGCATTT 97
DB 45 His---AsnSerAsnThrProGlyIle 52
RESULT 9
PCT-US95-05008-17
Sequence 17, Application PC/TUS9505008
GENERAL INFORMATION:
APPLICANT: Sugen, Inc.
APPLICANT: 515 Galveston Drive
APPLICANT: Redwood City, California 94063-4720
APPLICANT: United States of America
APPLICANT: Wissenschaften E.V.
APPLICANT: Hofgarten Str. 2
APPLICANT: Munchen 80539
APPLICANT: Germany

TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05008
; FILING DATE: 24-APR-1995
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/232,545
; FILING DATE: 22-APR-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-074
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 505 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; PCT-US95-05008-17

Alignment Scores:
Pred. No.: 3.14 Length: 505
Score: 62.50 Matches: 14
Percent Similarity: 48.28% Conservative: 0
Best Local Similarity: 48.28% Mismatches: 14
Query Match: 14.85% Indels: 1
Gaps: 1

US-09-049-696-16 (1-242) x PCT-US95-05008-17 (1-505)
QY 11 CCACAGACTCCGCCGACAGACCTAGTCTGATGAACGTCCTGCTCTTAATT 70
DB 25 ProHiscysProValTyrValProAspProThrSerThrIleLysProLysProAsnSer 44
QY 71 CATATCAACAGCACCATCTCGCAT 97
DB 45 His---AsnSerAsnThrProLysIle 52

RESULT 10
US-08-217-327-4
; Sequence 4, Application US/08217327
; Patent No. 5474925
; GENERAL INFORMATION:
; APPLICANT: John, Maliyakal E
; APPLICANT: Barton, Kenneth A
; TITLE OF INVENTION: Immobilized Proteins in Cotton Fiber
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles and Brady
; STREET: P.O. Box 2113
; CITY: Madison
; STATE: WI
; COUNTRY: USA

ZIP: 53701-2113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/217,327
; FILING DATE:
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/812,233
; FILING DATE: 19-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 1122990831
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-217-327-4

Alignment Scores:
Pred. No.: 4.32 Length: 214
Score: 61.00 Matches: 12
Percent Similarity: 46.67% Conservative: 2
Best Local Similarity: 40.00% Mismatches: 16
Query Match: 14.49% Indels: 0
Gaps: 0

US-09-049-696-16 (1-242) x US-08-217-327-4 (1-214)
QY 8 CCTCCACAGACTCCGCCGACAGACCTAGTCTGATGAACGTCCTGCTCTTAATT 67
DB 124 ProProLalThrProProProLalThrProProLalThrProProLalThrProProLalThrPro 143
QY 68 ATTCAATCAACAGCACCATCTCGCAT 97
DB 144 AlaSerProProLalThrValProLalIle 153

RESULT 11
US-08-313-200-1
; Sequence 1, Application US/08313200
; Patent No. 5968153
; GENERAL INFORMATION:
; APPLICANT: Baker, James R.
; APPLICANT: Koenig, Ronald J.
; TITLE OF INVENTION: THYROID PEROXIDASE EPITOPIC REGIONS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,200
; FILING DATE: 08-NOV-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Konski, Antoinette F.

REGISTRATION NUMBER: 34,202
REFERENCE/DOCKET NUMBER: 20344-20658.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 933 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
DEVELOPMENTAL STAGE: Mature
TISSUE TYPE: Thyroid gland(from people with Grave's
TISSUE TYPE: disease)
IMMEDIATE SOURCE:
CLONE: pTPO-2.8
FEATURE:
NAME/KEY: Peptide
LOCATION: join(1..3, 456..631)
OTHER INFORMATION: /note= "TPO region within fusion
OTHER INFORMATION: plasmid: TPO(delta4-455)"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..120
OTHER INFORMATION: /note= "C-terminal truncation:
OTHER INFORMATION: TPO(1-120)"
FEATURE:
NAME/KEY: Region
LOCATION: 1..400
OTHER INFORMATION: /note= "TPO epitopic region within
OTHER INFORMATION: fusion protein: MBP-TPO (AA 1-400)"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..455
OTHER INFORMATION: /note= "C-terminal truncation-
OTHER INFORMATION: TPO(1-455) or N-terminal half of TPO"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..631
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OTHER INFORMATION: TPO(1-631)"
FEATURE:
NAME/KEY: Region
LOCATION: 266..281
OTHER INFORMATION: /note= "TPO epitopic or binding
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 376..631
OTHER INFORMATION: /note= "TPO epitopic region within
OTHER INFORMATION: fusion protein: MBP-TPO (AA 376-631)"
FEATURE:
NAME/KEY: Region
LOCATION: join(455..532, 590..933)
OTHER INFORMATION: /note= "alternatively spliced
OTHER INFORMATION: C-terminus of TPO"
FEATURE:
NAME/KEY: Region
LOCATION: 455..933
OTHER INFORMATION: /note= "TPO C-terminus containing
OTHER INFORMATION: binding region"
FEATURE:
NAME/KEY: Region
LOCATION: 456..631
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"

FEATURE:
NAME/KEY: Region
LOCATION: 456..633
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
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NAME/KEY: Region
LOCATION: 456..933
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NAME/KEY: Region
LOCATION: 456..933
OTHER INFORMATION: /note= "TPO region within maltose
binding fusion protein"
FEATURE:
NAME/KEY: Region
LOCATION: 457..517
OTHER INFORMATION: /note= "non-reactive fragment"
FEATURE:
NAME/KEY: Region
LOCATION: 457..633
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OTHER INFORMATION: plasmid pMALTPO"
FEATURE:
NAME/KEY: Region
LOCATION: 457..933
OTHER INFORMATION: /note= "TPO binding region within
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FEATURE:
NAME/KEY: Region
LOCATION: 465..933
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OTHER INFORMATION: maltose binding region fusion construct"
FEATURE:
NAME/KEY: Region
LOCATION: 513..633
OTHER INFORMATION: /note= "recombinant TPO"
FEATURE:
NAME/KEY: Region
LOCATION: 517..630
OTHER INFORMATION: /note= "TPO binding or epitopic
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FEATURE:
NAME/KEY: Region
LOCATION: 517..633
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FEATURE:
NAME/KEY: Region
LOCATION: 573..633
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FEATURE:
NAME/KEY: Region
LOCATION: 590..615
OTHER INFORMATION: /note= "TPO region within maltose
binding fusion protein"
FEATURE:
NAME/KEY: Region
LOCATION: 590..615
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 590..675
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 592..613
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"


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; FEATURE:
; NAME/KEY: Region
; LOCATION: 596..611
; OTHER INFORMATION: /note="Tpo region within fusion
; OTHER INFORMATION: protein"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 602..615
; OTHER INFORMATION: /note="TPO region containing
; OTHER INFORMATION: divergent sequences"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 611..615
; OTHER INFORMATION: /note="TPO binding or epitopic
; OTHER INFORMATION: region"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 631..933
; OTHER INFORMATION: /note="TPO binding or epitopic
; OTHER INFORMATION: region"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 632..933
; OTHER INFORMATION: /note="TPO region within maltose
; OTHER INFORMATION: binding fusion protein"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 633..768
; OTHER INFORMATION: /note="TPO binding or epitopic
; OTHER INFORMATION: region"
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; Alignment Scores:
; Pred. No.: 5.46 Length: 933
; Score: 61.00 Matches: 15
; Percent Similarity: 44.44% Conservative: 5
; Best Local Similarity: 33.33% Mismatches: 19
; Query Match: 14.49% Indels: 6
; DB: 2 Gaps: 2
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US-09-049-696-16 (1-242) x US-08-313-200-1 (1-933)
;
QY 2 TTTATTCCTCCACAGACTCCG-----CCAGAGACACCTAGTCTGATGAACG 49
; |||:|||||: ||| ||| |||
; Db 366 PhevalProProArgProAlaIalacysAlaProGluProGlyIleProGlyIuThr 385
;
QY 50 TCTGCTCCTGT-----CCTAATATTCATATCAACAGACCATTCCTGGCATTCACATT 103
; ||||| ||| ||| |||
; Db 386 ArgGlyProCysPheLeuAlaGlyaspGlyArgAlaSerGluValProSerIeuThrAla 405
;
QY 104 TTAATAATTATGTCG 118
; ||| :|||
; Db 406 LeuHISThrLeuTrp 410
;
RESULT 12
PCT-US93-03837-1
; Sequence 1, Application PC/TUS9303837
; GENERAL INFORMATION:
; APPLICANT: Baker, Jr., James R.
; APPLICANT: Koenig, Ronald J.
; TITLE OF INVENTION: Thyroid Peroxidase Epitopic Regions
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: USA
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
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```

; APPLICATION NUMBER: PCT/US93/03837
; FILING DATE: 19930422
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lewak, Anna M.
; REGISTRATION NUMBER: 33006
; REFERENCE/DOCKET NUMBER: 2115-00658PPA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (313) 641-1600
; TELEFAX: (313) 641-0270
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 933 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; DEVELOPMENTAL STAGE: Mature
; TISSUE TYPE: Thyroid gland (from people with Grave's
; TISSUE TYPE: disease)
; IMMEDIATE SOURCE:
; CLONE: phppo-2.8
; PUBLICATION INFORMATION:
; AUTHORS: Kimura, S.
; AUTHORS: Kotani, T.
; AUTHORS: McBride, O. W.
; AUTHORS: Umeki, K.
; AUTHORS: Nakayama, T.
; AUTHORS: Ohkaki, S.
; AUTHORS: Hirai, K.
; TITLE: Human thyroid peroxidase: Complete cDNA and
; TITLE: protein sequence, chromosome mapping, and
; TITLE: identification of two alternately spliced mRNAs
; JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
; VOLUME: 84
; PAGES: 5555-5559
; DATE: 1987
; RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 3048
;
PCT-US93-03837-1
;
; Alignment Scores:
; Pred. No.: 5.46 Length: 933
; Score: 61.00 Matches: 15
; Percent Similarity: 44.44% Conservative: 5
; Best Local Similarity: 33.33% Mismatches: 19
; Query Match: 14.49% Indels: 6
; DB: 2 Gaps: 2
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US-09-049-696-16 (1-242) x PCT-US93-03837-1 (1-933)
;
QY 2 TTTATTCCTCCACAGACTCCG-----CCAGAGACACCTAGTCTGATGAACG 49
; |||:|||||: ||| ||| |||
; Db 366 PhevalProProArgProAlaIalacysAlaProGluProGlyIleProGlyIuThr 385
;
QY 50 TCTGCTCCTGT-----CCTAATATTCATATCAACAGACCATTCCTGGCATTCACATT 103
; ||||| ||| ||| |||
; Db 386 ArgGlyProCysPheLeuAlaGlyaspGlyArgAlaSerGluValProSerIeuThrAla 405
;
QY 104 TTAATAATTATGTCG 118
; ||| :|||
; Db 406 LeuHISThrLeuTrp 410
;
RESULT 13
US-08-922-635-22
; Sequence 22, Application US/08922635A
; Patent No. 6033871
; GENERAL INFORMATION:
; APPLICANT: PILETZ, John E.
; APPLICANT: IVANOV, Tina R.
; TITLE OF INVENTION: DNA MOLECULES ENCODING IMIDALINE RECEPTIVE POLYPEPTIDES
```

TITLE OF INVENTION: AND POLYPEPTIDES ENCODED THEREBY
FILE REFERENCE: Corrected Sequence Listing
Patent No. 6033871
CURRENT APPLICATION NUMBER: US/08/922,635A
CURRENT FILING DATE: 1997-09-03
EARLIER APPLICATION NUMBER: 08/650,766
EARLIER FILING DATE: 1996-05-20
EARLIER APPLICATION NUMBER: 60/012,600
EARLIER FILING DATE: 1996-03-01
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 1070
TYPE: PRT
ORGANISM: Homo sapiens
US-08-922-635-22

Alignment Scores:
Pred. No.: 5.58 Length: 1070
Score: 61.00 Matches: 14
Percent Similarity: 39.13% Conservative: 13
Best Local Similarity: 20.29% Mismatches: 18
Query Match: 14.49% Indels: 24
Gaps: 1

US-09-049-696-16 (1-242) x US-08-922-635-22 (1-1070)

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Db 652 ValProGluGlnThrProValGluAlaProAlaProProProAlaGluAlaProAlaGln 671
QY 58 ----- 58
Db 672 TyrProSerGluHisLeuIleGlnAlaThrSerGluGluAsnGlnIleProSerHisLeu 691
QY 59 -----TGTCCTAATATTCATATGACAGACCATTCCTGGCATTCATTAAAAATT 112
Db 692 ProAlaCysProSerLeuArgHisValAlaSerLeuArgGlySerAlaIleIleGluLeu 711
QY 113 ATGTGGAAGTCGATAGAGAACTGCAG 139
Db 712 PheHisSerSerIleAlaGluValGlu 720

RESULT 14
US-09-141-212-8
Sequence 8, Application US/09141212
Patent No. 6200777
GENERAL INFORMATION:
APPLICANT: MACPHEE, COLIN
APPLICANT: PATEL, LISA
TITLE OF INVENTION: NOVEL COMPOUNDS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ratner & Prestia
STREET: P.O. Box 980
CITY: Valley Forge
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/141,212
FILING DATE: 27-AUG-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 97306807.5
FILING DATE: 01-SEP-1997
APPLICATION NUMBER: EP 98300687.5
FILING DATE: 30-JAN-1998

APPLICATION NUMBER: GB 9807720.9
FILING DATE: 08-APR-1998
ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-30012
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0700
TELEX: 846169
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-141-212-8

Alignment Scores:
Pred. No.: 6.3 Length: 878
Score: 60.50 Matches: 13
Percent Similarity: 54.84% Conservative: 4
Best Local Similarity: 41.94% Mismatches: 11
Query Match: 14.37% Indels: 3
Gaps: 1

US-09-049-696-16 (1-242) x US-09-141-212-8 (1-878)

QY 8 CCTCCACAGACTCCGCCAGACACCT-----AGTCTGATGAAACGTCTGCTCT 58
Db 848 ProProGlnThrProProAspLeuProAlaGlnAlaAlaProAspLeuSerLeuLeu 867
QY 59 TGTCCTAATATTCATATGACAGACCATTCCT 91
Db 868 CysLeuProIleThrPheSerGlyAlaLeuPro 878

RESULT 15
US-09-561-138-8
Sequence 8, Application US/09561138
Patent No. 6258580
GENERAL INFORMATION:
APPLICANT: MACPHEE, COLIN
APPLICANT: PATEL, LISA
TITLE OF INVENTION: NOVEL COMPOUNDS
FILE REFERENCE: GP-30012-D1
CURRENT APPLICATION NUMBER: US/09/561,138
CURRENT FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 09/141,212
PRIOR FILING DATE: 1998-08-27
PRIOR APPLICATION NUMBER: EP 97306807.5
PRIOR FILING DATE: 1997-09-01
PRIOR APPLICATION NUMBER: EP 98300687.5
PRIOR FILING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: GB 9807720.9
PRIOR FILING DATE: 1998-04-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 8
LENGTH: 878
TYPE: PRT
ORGANISM: HOMO SAPIENS
US-09-561-138-8

Alignment Scores:
Pred. No.: 6.3 Length: 878
Score: 60.50 Matches: 13
Percent Similarity: 54.84% Conservative: 4
Best Local Similarity: 41.94% Mismatches: 11
Query Match: 14.37% Indels: 3
Gaps: 1

US-09-049-696-16 (1-242) x US-09-561-138-8 (1-878)

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OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 ; Search time 8.93612 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-14

Perfect score: 248

Sequence: 1 ACCTGAAGCGCGAATTCAC.....TTGAAGATGCACAGACTT 248

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IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Archived: 383533 seqs, 122816752 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents-NA: *
1: /cgn2-6/ptodata/2/1na/5A.COMB.seq: *
2: /cgn2-6/ptodata/2/1na/5B.COMB.seq: *
3: /cgn2-6/ptodata/2/1na/6A.COMB.seq: *
4: /cgn2-6/ptodata/2/1na/6B.COMB.seq: *
5: /cgn2-6/ptodata/2/1na/6C.COMB.seq: *
6: /cgn2-6/ptodata/2/1na/6D.COMB.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	No.	Score	Query Match	Length	ID	Description
1	248	100.0	878	1	US-08-469-667-8	Sequence 8, Appli
2	248	100.0	878	4	US-09-224-110-8	Sequence 8, Appli
3	248	100.0	878	5	PCT-US95-07289-8	Sequence 8, Appli
4	248	100.0	3007	4	US-09-193-562D-27	Sequence 27, Appli
5	129	52.0	618	4	US-09-385-982-24	Sequence 24, Appli
6	128.2	51.7	595	4	US-09-385-982-25	Sequence 25, Appli
7	92.8	37.4	742	4	US-09-385-982-33	Sequence 33, Appli
8	88.6	35.7	3022	4	US-09-193-562D-33	Sequence 33, Appli
9	87.4	35.2	3317	4	US-09-193-562D-1	Sequence 1, Appli
10	82	33.1	3418	4	US-09-193-562D-29	Sequence 29, Appli
11	65.8	26.5	335	4	US-09-193-562D-14	Sequence 14, Appli
12	58.4	23.5	2970	4	US-09-193-562D-31	Sequence 31, Appli
13	44.4	17.9	576	4	US-09-385-982-23	Sequence 23, Appli
14	35.6	14.4	4211	4	US-09-004-838-106	Sequence 106, Appli
15	33	13.3	1984	1	US-07-885-970A-25	Sequence 25, Appli
16	33	13.3	1985	1	US-08-298-687A-25	Sequence 25, Appli
17	33	13.3	1985	1	US-08-298-829-25	Sequence 25, Appli
18	30.8	12.4	864	4	US-08-953-326-12	Sequence 12, Appli
19	30	12.1	4362	2	US-08-455-073A-1	Sequence 1, Appli
20	29	11.7	1554	2	US-08-031-538-8	Sequence 8, Appli
21	29	11.7	1730	1	US-07-817-920-1	Sequence 1, Appli
22	29	11.7	1730	1	US-08-117-006-1	Sequence 1, Appli
23	29	11.7	1730	1	US-08-216-594-1	Sequence 1, Appli
24	29	11.7	1730	5	PCT-US93-00149-1	Sequence 1, Appli
25	29	11.7	11283	2	US-08-603-753D-3	Sequence 3, Appli
26	29	11.7	11283	3	US-09-099-753-3	Sequence 3, Appli
27	29	11.7	11283	4	US-08-986-106-3	Sequence 3, Appli

28	28.8	11.6	5506	4	US-09-004-838-93	Sequence 93, Appli
29	28.8	11.6	11056	4	US-09-004-838-23	Sequence 23, Appli
30	28.8	11.6	12793	4	US-09-004-838-124	Sequence 124, Appli
31	28.8	11.6	15062	4	US-09-004-838-89	Sequence 89, Appli
32	28.6	11.5	2273	3	US-08-714-918-40	Sequence 40, Appli
33	28.6	11.5	2273	4	US-09-265-315-40	Sequence 40, Appli
34	28.6	11.5	2273	4	US-09-265-315-40	Sequence 40, Appli
35	28.6	11.5	2273	4	US-09-265-315-40	Sequence 40, Appli
36	28.6	11.5	7521	4	US-09-004-838-116	Sequence 116, Appli
37	28.4	11.5	2275	2	US-08-743-637B-2	Sequence 2, Appli
38	28.4	11.5	2275	3	US-08-526-840B-2	Sequence 2, Appli
39	28.4	11.5	3828	5	PCT-US93-10500-1	Sequence 1, Appli
40	28.4	11.5	4190	2	US-08-488-706-3	Sequence 3, Appli
41	28.4	11.5	7721	3	US-08-772-270A-14	Sequence 14, Appli
42	28.2	11.4	676	1	US-08-259-745A-42	Sequence 42, Appli
43	28.2	11.4	676	1	US-08-259-745A-43	Sequence 43, Appli
44	28.2	11.4	1761	3	US-09-033-055A-3	Sequence 3, Appli
45	28.2	11.4	1761	3	US-09-033-055A-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-469-667-8
Sequence 8, Application US/08469667
Patent No. 5733748
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESS: Carella, Byrne, Bain, Gillillan, Cecchi,
ADDRESS: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-08-469-667-8
Query Match 100.0%; Score 248; DB 1; Length 878;
Best Local Similarity 100.0%; Pred. No. 1,6e-68;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 ACCTGAAGCGCGAATTCACATTAATTCAGCTTGACAGACTCTGCGG 60

Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTTATCTGACTTGGACAGCTCCG666 365
Qy 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTTGGAATAGTACAAATTTCTTG 120
Db 366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTTGGAATAGTACAAATTTCTTG 425
Qy 121 ATCTGAGACAGTCAATGATCTCTTCAAGTGAATCTACTGCTCATCCCAAGG 180
Db 426 ATCTGAGACAGTCAATGATCTCTTCAAGTGAATCTACTGCTCATCCCAAGG 485
Qy 181 AACCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAAATGGCA 240
Db 486 AACCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAAATGGCA 545
Qy 241 CAGATCTT 248
Db 546 CAGATCTT 553

RESULT 2

Sequence 8, Application US/09224110
Patent No. 6337195

GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-09-224-110-8

Query Match 100.0%; Score 248; DB 4; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.6e-68;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTTATCTGACTTGGACAGCTCCG666 365
Qy 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTTGGAATAGTACAAATTTCTTG 120
Db 366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTTGGAATAGTACAAATTTCTTG 425
Qy 121 ATCTGAGACAGTCAATGATCTCTTCAAGTGAATCTACTGCTCATCCCAAGG 180
Db 426 ATCTGAGACAGTCAATGATCTCTTCAAGTGAATCTACTGCTCATCCCAAGG 485
Qy 181 AACCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAAATGGCA 240
Db 486 AACCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAAATGGCA 545
Qy 241 CAGATCTT 248
Db 546 CAGATCTT 553

RESULT 3

PCT-US95-07289-8
Sequence 8, Application PC/TUS9507289

GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
PCT-US95-07289-8

Query Match 100.0%; Score 248; DB 5; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.6e-68;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTTATCTGACTTGGACAGCTCCG666 60
Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTTATCTGACTTGGACAGCTCCG666 365
Qy 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTTGGAATAGTACAAATTTCTTG 120

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Db 366 ATGATATATGACCATGGAACAGCTCACAAGTATATCATGGAATTAAGTACAAGATTTCTTG 425
Oy 121 ATCTGAGACAAAGTTCAATGATCTCTTCAAGTGAATCTACTGCTTCATCCCAAAG 180
Db 426 ATCTGAGACAAAGTTCAATGATCTCTTCAAGTGAATCTACTGCTTCATCCCAAAG 485
Oy 181 AAGCCAACTCTGAGAAAGCTTTTGTGTTAAACCAAGAAACATTAATTTGAAATGGCA 240
Db 486 AAGCCAACTCTGAGAAAGCTTTTGTGTTAAACCAAGAAACATTAATTTGAAATGGCA 545
Oy 241 CAGATCTT 248
Db 546 CAGATCTT 553
```

RESULT 4

```
US-09-193-562D-27
Sequence 27, Application US/09193562D
Patent No. 6309857
```

GENERAL INFORMATION:

```
APPLICANT: Fault, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 27
LENGTH: 3007
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-27
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Query Match

```
Best Local Similarity 100.0%; Score 248; DB 4; Length 3007;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Oy 1 ACCGTGAGGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60
Db 2319 ACCGTGAGGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 2378
Oy 61 AGGATTATGACCATGGAACAGCTCACAAGTATATCATTTGCAATAGTAAAGTATCTTG 120
Db 2379 AGGATTATGACCATGGAACAGCTCACAAGTATATCATTTGCAATAGTAAAGTATCTTG 2438
Oy 121 ATCTGAGACAAAGTTCAATGATCTCTTCAAGTGAATCTACTGCTTCATCCCAAAG 180
Db 2439 ATCTGAGACAAAGTTCAATGATCTCTTCAAGTGAATCTACTGCTTCATCCCAAAG 2498
Oy 181 AAGCCAACTCTGAGAAAGCTTTTGTGTTAAACCAAGAAACATTAATTTGAAATGGCA 240
Db 2499 AAGCCAACTCTGAGAAAGCTTTTGTGTTAAACCAAGAAACATTAATTTGAAATGGCA 2558
Oy 241 CAGATCTT 248
Db 2559 CAGATCTT 2566
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RESULT 5

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US-09-385-982-24/C
Sequence 24, Application US/09385982
Patent No. 6262334
```

GENERAL INFORMATION:

```
APPLICANT: ENDEGE, WILSON O., ET AL.
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
TITLE OF INVENTION: PRODUCTS: II
FILE REFERENCE: CCDNA-260XX
CURRENT APPLICATION NUMBER: US/09/385,982
CURRENT FILING DATE: 1999-08-30
EARLIER APPLICATION NUMBER: 09/328,111
```

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; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(618)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-24
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Query Match

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Best Local Similarity 52.0%; Score 129; DB 4; Length 618;
Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
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Oy 33 ATTAATCTGACTTGGACAGCTCTGGGATGATTAATGACCATGGAACAGCTCAAGATAT 92
Db 441 ATTAATCTGACTTGGACAGCTCTGGGATGATTAATGACCATGGAACAGCTCAAGATAT 382
Oy 93 ATCATTCGAATTAAGTACAGTATCTTGTATCCAGAGCAAGTCAATGAATCTCTTCAA 152
Db 381 ATCATTAAGTATTAAGTACAGTATCTTGTATCCAGAGCAAGTCAATGAATCTCTTCAA 322
Oy 153 GGAATATCTACTGCTCTCAATCCCAAGAGCAACTCTGAGGAAGTCTTTTGTAA 212
Db 321 GGAATATCTACTGCTCTCAATCCCAAGAGCAACTCTGAGGAAGTCTTTTGTAA 262
Oy 213 CCAGAAACATTAATTTGAAATGGCAC 241
Db 261 CCAGAAACATTAATTTGAAATGGCAC 233
```

RESULT 6

```
US-09-385-982-25
Sequence 25, Application US/09385982
Patent No. 6262334
```

GENERAL INFORMATION:

```
APPLICANT: ENDEGE, WILSON O., ET AL.
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
TITLE OF INVENTION: PRODUCTS: II
FILE REFERENCE: CCDNA-260XX
CURRENT APPLICATION NUMBER: US/09/385,982
CURRENT FILING DATE: 1999-08-30
EARLIER APPLICATION NUMBER: 09/328,111
EARLIER FILING DATE: 1999-06-08
EARLIER APPLICATION NUMBER: 60/117,393
EARLIER FILING DATE: 1999-01-27
EARLIER APPLICATION NUMBER: 60/098,639
EARLIER FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 544
SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 595
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(595)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-25
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Query Match

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Best Local Similarity 51.7%; Score 128.2; DB 4; Length 595;
Matches 157; Conservative 0; Mismatches 52; Indels 0; Gaps 0;
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Oy 33 ATTAATCTGACTTGGACAGCTCTGGGATGATTAATGACCATGGAACAGCTCAAGATAT 92
Db 441 ATTAATCTGACTTGGACAGCTCTGGGATGATTAATGACCATGGAACAGCTCAAGATAT 382
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[illegible]

```

RESULT 7
US-09-385-982-33
; Sequence 33, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: 11
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 742
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(742)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-33

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Query Match	37.4%	Score 92.8	DB 4	Length 742
Best Local Similarity	74.1%	Pred. No. 4,6e-20		
Matches 143	Conservative 0	Mismatches 46	Indels 2	Gaps 2
QY	33	ATTAACTGACTGGACAGCTCTCTGGGATGATATGACCATGGAACAGCTCACAAGTAT	92	
	210	ATTATTTCTTACATGGACAGCACACGAGAGTATTTTGGATGTGGAAAAGTTCTCAACGTAT	269	
QY	93	ATCATTCGAATAGACAGATGATCTCTGTGATCCAGAGCAACTGCATCAATCAATCTCTTCA	152	
	270	ATCATAGAAATRAGTCGCAAGTATTTTGTGATCTTAAAGAGACGTTTGGATGATGCTCTTCA	329	
Db	153	GTGATTACTACTGCTCTCATGCCAAGAGCAACTGTGAGGAAGCTTTTGTGTAA	212	
	330	GTAAT-CTACTGATCT-GCACCAGAGGAGGCCAAGCACTTCAGAGAAAGCTTTCATTTAAC	387	
QY	213	CCAGAAAACATT	225	
Db	388	CANAAAAATATTTTA	400	

```

RESULT 8 -562D-33
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

```

```

; FILE REFERENCE: 18617_0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

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	Query Match	Score	DB	Length
Best Local Similarity	35.7%	88.6	2514	3022
Matches	136	Conservative	0	Mismatches 79; Indels 0; Gaps 0;
OY	33	ATTAACTGACTTGGACAGCTCTCTGGGGATGATTTATGACCATGGAACGCTCACAGTAT	92	
Db	2334	ATTCCCTTACATGTGACGCCCCCTGGCAAGGTTCTCGACAAATGGAAGACACATGATGATC	2393	
OY	93	ATCATTCGAATATAGATACAAGTATTTGTGATCTCAGAGACAACTTCAATGAATCTGTGCA	152	
Db	2394	ATCATCAGAAATGAGCCAGCATTCCTGTGATCTCCAGAAAGATTTTAAACATGCTACTTAA	2453	
OY	153	GTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTGTGAGAGATCTTTTGTGTTAAA	212	
Db	2454	GTGAATGCTTCAGTCTCATATACCTAAAGAGCTGCTCAAAAGAAAGCAATTTAAATTCAAA	2513	
OY	213	CCAGAAACATTTACTTTTGAAGAAATGGACAGATCT	247	
Db	2514	CCAGAACTTTTAAATATGACAAATGGCATCCAGCT	2548	

RESULT 9
 US-09-193-562D-1
 Sequence 1, Application US/09193562D
 Patent No. 6309857
 GENERAL INFORMATION:
 APPLICANT: Pauli, Benedict U.
 TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
 FILE REFERENCE: 18617.0052
 CURRENT APPLICATION NUMBER: US/09/193,562D
 CURRENT FILING DATE: 1998-11-17
 PRIOR APPLICATION NUMBER: US/60/065,922
 PRIOR FILING DATE: 1997-11-17
 NUMBER OF SEQ ID NOS: 47
 SEQ ID NO 1
 LENGTH: 3317
 TYPE: DNA
 ORGANISM: Unknown
 FEATURE:
 OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
 OTHER INFORMATION: protein from bovine endothelial cells
 US-09-193-562D-1

	Query Match	Best Local Similarity	35.2% Matches 133;	Score 87.4; Pred. No. 4e-18; Conservative 0;	DB 4; Mismatches 76; Indels 0;	Length 3317; Gaps 0;
QY	33	ATTAACTGACTGGACAGCTCTGGGGATGATTATGACATGAGCAAGCTTCACAAGTAT	92			
Db	2391	ATTCAATCTTCATGGACAGCCCCCTGGCAATGCTCTAGATTAAAGGAAAGGCCAACAGCTAC	2450			
QY	93	ATCATTCGAATAATGACAAAGTATCTTATCTCAGAGACAAGTTCAATGAATCTCTTCAA	152			
Db	2451	ATTATTAACAAATAGATGAAGTTTCATGGATGGTCAAGAGATTTTGGACAATGCCACTTAA	2510			
QY	153	GTGATACTACTGCTGCATGCCCAAGGAAGCAACTGTGAGGAAGCTTTTGTGTTAAA	212			
Db	2511	GTGAACTACTTCTAATCTAATACCTTAAGAGAGCCGCGATCAAAAAGAAATTTGAAATTTAAG	2570			
QY	213	CCAGAAACATTACTTTTGAAGAAATGCCAC	241			

Db 2571 CCAGAACATTTAGAGTGAATAATGGCAC 2599
RESULT 10
US-09-193-562D-29
Sequence 29, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
CURRENT APPLICATION NUMBER: US/09/193,562D
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
LENGTH: 3418
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-29
Query Match 33.1%; Score 82; DB 4; Length 3418;
Best Local Similarity 61.0%; Pred. No. 2e-16;
Matches 133; Conservative 0; Mismatches 85; Indels 0; Gaps 0;
QY 24 GGCAGTCTCATTTAATCTGACTTGGACAGACCTCGGGGATGATTATGACCATGGAACACGT 83
Db 2386 GGAGATCATATTCAACTTTCATGACGCTCCGCGCAAGTCTCGATTAAGAAAGAGACGT 2445
QY 84 CACAGATATCATCTCGAATAGTACAGAGTATTTCTGATCTCAGAGCAAGTCAATGAA 143
Db 2446 GAGAGCTCATATTAGAAATAGTAAACATTTCTGACCTCCAGAAAGATTTGATGATAA 2505
QY 144 TCTCTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCACTGAGGAAGTCTTT 203
Db 2506 GCTGCTTTAATAATACTCTGCTGCTGATACCTAAGAGCCGTGGTTCAGTGAAGATT 2565
QY 204 TTGTTTAAACAGAAACATTACTTTTGAATAATGGCAC 241
Db 2566 GAATTTAAACAGAAACCTTCTAATAATAGAAATGTAC 2603
RESULT 11
US-09-193-562D-14
Sequence 14, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
CURRENT APPLICATION NUMBER: US/09/193,562D
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
LENGTH: 335
TYPE: DNA
ORGANISM: Artificial sequence
OTHER INFORMATION: Oligonucleotide probe
US-09-193-562D-14
Query Match 26.5%; Score 65.8; DB 4; Length 335;
Best Local Similarity 63.7%; Pred. No. 9.4e-12;
Matches 100; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
QY 85 ACAAGTATATCATTCGATAGTACAGATATTTGATCTCAGAGCAAGTTCAATGAAT 144

Db 3 ACAGCTACATTTAATAAGTAAGTATTCATGATCTGTCAGAAAGATTTGACAATG 62
QY 145 CTCTTCAGTGAATATCTCTGCTCATCCCAAGGAAGCCACTCTAGAGATCTTTT 204
Db 63 CGACTTTAGTGAATATCTCTAATATCTAATATCTAAGAGGCGGATCAAAAGAAATTTTG 122
QY 205 TGTTTAAACAGAAACATTACTTTTGAATAATGGCAC 241
Db 123 AATTTAAGCCAGAAACATTTAGAGTGAATAATGGCAC 159
RESULT 12
US-09-193-562D-31
Sequence 31, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
CURRENT APPLICATION NUMBER: US/09/193,562D
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
LENGTH: 2970
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-31
Query Match 23.5%; Score 58.4; DB 4; Length 2970;
Best Local Similarity 55.4%; Pred. No. 4.4e-09;
Matches 113; Conservative 0; Mismatches 91; Indels 0; Gaps 0;
QY 34 TTAATCTGACTTGGACAGCTCTGCGGATGATTATGACATGAGAAAGCTCACAAGTATA 93
Db 2450 TGACCCATATCTTGACACAGCACTGAGAAAGCTTTGATCAGGCGAGCTCAAGCTATG 2509
QY 94 TCATTCGAATAGTACAGATATTTCTGATCTCAGAGCAAGTCAATGAATCTCTCAAG 153
Db 2510 AAATTAAGAAATAGTAAAGTCTACAGATATTCAGATGATGATCAATCTATTTTAA 2569
QY 154 TGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAAC 213
Db 2570 TAAATACATCAAGGAAATCTCTCAGCAAGCTGCAATCAGGAGATATTTACGTTTCAC 2629
QY 214 CAGAAACATTTACTTTTGAATAATG 237
Db 2630 CCCAGATTTCCACGAATGCACTG 2653
RESULT 13
US-09-385-982-23
Sequence 23, Application US/09385982
Patent No. 6262334
GENERAL INFORMATION:
APPLICANT: ENDEGE, WILSON O., ET AL.
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
FILE REFERENCE: CCDNA-260XX
CURRENT FILING DATE: 1999-08-30
CURRENT APPLICATION NUMBER: US/09/385,982
EARLIER APPLICATION NUMBER: 09/328,111
EARLIER FILING DATE: 1999-06-08
EARLIER APPLICATION NUMBER: 60/117,393
EARLIER FILING DATE: 1999-01-27
EARLIER APPLICATION NUMBER: 60/098,639
EARLIER FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 544
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 576

TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)-(576)
OTHER INFORMATION: n = A,T,C or G
US-09-385-982-23

Query Match 17.9%; Score 44.4; DB 4; Length 576;
Best Local Similarity 74.5%; Pred. No. 5.6e-05;
Matches 82; Conservative 0; Mismatches 26; Indels 2; Gaps 2;

QY 33 ATTAATCTGCTTGACAGCTCCTGGGATGATTATGACCATGAAACGCTCAAGTAT 92
DB 442 ATTATTTTACATGACGACGACCATGATATTTGATGTGAAAAGTTCAAGTTAT 501
QY 93 ATCATTCGATAGTCAAGTATTTGATTCAGACAGACAGTTCATGA 142
DB 502 ATCATAGAAATTA-TGCAGATATCTTGA-CTAAGAGACAGTTTATGA 549

ULT 14
US-09-004-838-106
Sequence 106, Application US/09004838
Patent No. 6350933

GENERAL INFORMATION:
APPLICANT: Michelmore, Richard W.
APPLICANT: Shen, Kathy

APPLICANT: Meyers, Blake

TITLE OF INVENTION: Procedures and Materials for
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/004.838
FILING DATE: 09-JAN-1998
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/781,734
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Einhorn, Gregory P.
REGISTRATION NUMBER: 38,440
REFERENCE/DOCKET NUMBER: 023070-078810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 106:
SEQUENCE CHARACTERISTICS:
LENGTH: 4211 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:

NAME/KEY: -

LOCATION: 1..4211

OTHER INFORMATION: /note= "RG2J"

US-09-004-838-106

Query Match 14.4%; Score 35.6; DB 4; Length 4211;
Best Local Similarity 50.0%; Pred. No. 0.067;

Matches 89; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 6 AAGCGGAATTCAGGGGGGACGTCATTAATCTGACCTTGCGGATGAT 65
DB 208 TAACTGCAATGAATGATGTAAGGCTTCAGAAAACCTTGCGATGAATGATGTT 2087
QY 66 TATGACCATGAGACAGCTCAAGATATATCATTCGATAGTACAGATATCTTGATCTC 125
DB 2088 TAAATGCAATGCTCAAGTGAAGATATATTCCTTCGAGAAATCTTAACGATTCAGATCTC 2147
QY 126 AGAGACAAGTTCAATATCTCTTCAAGTATGATCTACTGCTCTCAATCCCAAGAG 183
DB 2148 AGTGGATGTTCTTTCATCATGATCTTTCAGTAAACGACGACATCATAGAAAACACG 2205

RESULT 15

US-07-885-970A-25/C
Sequence 25, Application US/07885970A
Patent No. 5495070

GENERAL INFORMATION:

APPLICANT: John, Maliyakal E.

TITLE OF INVENTION: GENETICALLY ENGINEERING COTTON

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nicholas J. Seay, Quarles & Brady
STREET: P.O. Box 2113, First Wisconsin Plaza
CITY: Madison
STATE: Wisconsin
COUNTRY: USA
ZIP: 53701

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/885.970A
FILING DATE: 19920518
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/617,239
FILING DATE: 21-NOV-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/253,243
FILING DATE: 04-OCT-1988
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27,386
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 283-2478
TELEFAX: (608) 251-5139
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 1964 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Gossypium barbadense
STRAIN: Sea Island
IMMEDIATE SOURCE:
LIBRARY: EMBL ST
CLONE: SIH6
US-07-885-970A-25

Query Match 13.3%; Score 33; DB 1; Length 1964;

Best Local Similarity 53.5%; Pred. No. 0.33;

Matches 69; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 90 TATATCATTCGAATAGTACAGATATCTTGATCTGACAGACAGTTCATGATCTCTT 149

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Db 1817 TATATGAATCGAATAAATCCAAACCAACATATATCCAAACAAATAAACAATAAATTCCTT 1758
OY 150 CAAGTGAATFACTGCTCTCATCCCAAGAGGCACTGAGGAACTTTTGTGTT 209
Db 1757 CAAATACAAAAAGAGTGTCTCCTCAAAAGTAAATAAATAATATGTCTCAAGAAT 1698
OY 210 AAACCCAGAA 218
Db 1697 ACAATATTA 1689

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Search completed: October 17, 2002, 11:14:52
 Job time : 16.9361 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame-plus.n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 6.96588 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-14

Perfect score: 427

Sequence: 1 ACTGAGGCGGAATTCAC.....TTGAAATGCGACAGATCTT 248

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Ygapop 10.0 ,	Ygapext 0.5		
Fgapop 6.0 ,	Fgapext 7.0		
Delop 6.0 ,	Delext 7.0		

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-LIST=45 -DOCCALIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15
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-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

1: Issued Patents.AA:*
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3: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
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6: /cgn2_6/ptodata/2/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	427	100.0	228	1	US-08-469-667-9
2	427	100.0	228	4	US-09-224-110-9
3	427	100.0	228	5	PCT-US95-07289-9
4	427	100.0	914	4	US-09-193-562D-28
5	210.5	49.3	902	4	US-09-193-562D-34
6	195	45.7	203	4	US-09-193-562D-32
7	195	45.7	903	4	US-09-193-562D-2
8	190	44.4	903	4	US-09-193-562D-46
9	189.5	44.4	1000	4	US-09-193-562D-30
10	159	37.2	943	4	US-09-193-562D-32
11	69	16.2	283	1	US-08-726-227-1
12	69	16.2	283	3	US-08-826-246-6

13	69	16.2	283	3	US-08-944-495-6	Sequence 6, Appli
14	69	16.2	283	3 <td>US-09-126-640-9<td>Sequence 9, Appli</td></td>	US-09-126-640-9 <td>Sequence 9, Appli</td>	Sequence 9, Appli
15	69	16.2	283	4 <td>US-08-925-588-6<td>Sequence 6, Appli</td></td>	US-08-925-588-6 <td>Sequence 6, Appli</td>	Sequence 6, Appli
16	69	16.2	283	4 <td>US-09-288-292A-9<td>Sequence 9, Appli</td></td>	US-09-288-292A-9 <td>Sequence 9, Appli</td>	Sequence 9, Appli
17	66	15.5	166	5 <td>PCT-US95-03866-34<td>Sequence 34, Appli</td></td>	PCT-US95-03866-34 <td>Sequence 34, Appli</td>	Sequence 34, Appli
18	65	15.1	283	1 <td>US-08-726-227-4<td>Sequence 4, Appli</td></td>	US-08-726-227-4 <td>Sequence 4, Appli</td>	Sequence 4, Appli
19	65	15.1	908	3 <td>US-08-823-110-1<td>Sequence 1, Appli</td></td>	US-08-823-110-1 <td>Sequence 1, Appli</td>	Sequence 1, Appli
20	65	15.1	908	3 <td>US-08-604-298-1<td>Sequence 1, Appli</td></td>	US-08-604-298-1 <td>Sequence 1, Appli</td>	Sequence 1, Appli
21	64	15.0	166	5 <td>PCT-US95-03866-18<td>Sequence 18, Appli</td></td>	PCT-US95-03866-18 <td>Sequence 18, Appli</td>	Sequence 18, Appli
22	64	14.8	481	4 <td>US-08-617-785-8<td>Sequence 8, Appli</td></td>	US-08-617-785-8 <td>Sequence 8, Appli</td>	Sequence 8, Appli
23	64	14.8	867	4 <td>US-08-617-785-4<td>Sequence 4, Appli</td></td>	US-08-617-785-4 <td>Sequence 4, Appli</td>	Sequence 4, Appli
24	64	14.8	912	4 <td>US-08-617-785-2<td>Sequence 2, Appli</td></td>	US-08-617-785-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
25	64	14.8	912	5 <td>PCT-US91-09422-19<td>Sequence 19, Appli</td></td>	PCT-US91-09422-19 <td>Sequence 19, Appli</td>	Sequence 19, Appli
26	64	14.8	915	1 <td>US-08-453-862-2<td>Sequence 2, Appli</td></td>	US-08-453-862-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
27	64	14.8	915	2 <td>US-08-452-734A-2<td>Sequence 2, Appli</td></td>	US-08-452-734A-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
28	64	14.8	915	4 <td>US-08-617-785-12<td>Sequence 12, Appli</td></td>	US-08-617-785-12 <td>Sequence 12, Appli</td>	Sequence 12, Appli
29	64	14.8	915	4 <td>US-08-176-401B-2<td>Sequence 2, Appli</td></td>	US-08-176-401B-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
30	64	14.8	915	5 <td>PCT-US94-14989-2<td>Sequence 2, Appli</td></td>	PCT-US94-14989-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
31	64	14.8	922	4 <td>US-08-617-785-14<td>Sequence 14, Appli</td></td>	US-08-617-785-14 <td>Sequence 14, Appli</td>	Sequence 14, Appli
32	63	14.8	164	1 <td>US-08-318-193-77<td>Sequence 77, Appli</td></td>	US-08-318-193-77 <td>Sequence 77, Appli</td>	Sequence 77, Appli
33	63	14.8	165	2 <td>US-08-955-848A-1<td>Sequence 1, Appli</td></td>	US-08-955-848A-1 <td>Sequence 1, Appli</td>	Sequence 1, Appli
34	63	14.8	165	5 <td>PCT-US95-03866-2<td>Sequence 2, Appli</td></td>	PCT-US95-03866-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
35	63	14.8	166	2 <td>US-08-628-428-5<td>Sequence 2, Appli</td></td>	US-08-628-428-5 <td>Sequence 2, Appli</td>	Sequence 2, Appli
36	63	14.8	166	2 <td>US-08-628-428-8<td>Sequence 8, Appli</td></td>	US-08-628-428-8 <td>Sequence 8, Appli</td>	Sequence 8, Appli
37	63	14.8	166	2 <td>US-08-628-428-5<td>Sequence 5, Appli</td></td>	US-08-628-428-5 <td>Sequence 5, Appli</td>	Sequence 5, Appli
38	63	14.8	166	2 <td>US-09-106-891-2<td>Sequence 2, Appli</td></td>	US-09-106-891-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
39	63	14.8	166	4 <td>US-08-172-507-2<td>Sequence 2, Appli</td></td>	US-08-172-507-2 <td>Sequence 2, Appli</td>	Sequence 2, Appli
40	63	14.8	166	5 <td>PCT-US95-03866-36<td>Sequence 36, Appli</td></td>	PCT-US95-03866-36 <td>Sequence 36, Appli</td>	Sequence 36, Appli
41	63	14.8	195	4 <td>US-08-482-918-44<td>Sequence 44, Appli</td></td>	US-08-482-918-44 <td>Sequence 44, Appli</td>	Sequence 44, Appli
42	63	14.8	195	4 <td>US-09-224-681-44<td>Sequence 44, Appli</td></td>	US-09-224-681-44 <td>Sequence 44, Appli</td>	Sequence 44, Appli
43	63	14.8	196	4 <td>US-08-336-728A-44<td>Sequence 44, Appli</td></td>	US-08-336-728A-44 <td>Sequence 44, Appli</td>	Sequence 44, Appli
44	63	14.8	208	4 <td>US-08-836-252A-6<td>Sequence 6, Appli</td></td>	US-08-836-252A-6 <td>Sequence 6, Appli</td>	Sequence 6, Appli
45	63	14.8	208	4 <td>US-08-482-918-46<td>Sequence 46, Appli</td></td>	US-08-482-918-46 <td>Sequence 46, Appli</td>	Sequence 46, Appli

ALIGNMENTS

RESULT 1
US-08-469-667-9
Sequence 9, Application US/08469667
Patent No. 5733748
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids


```

; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 3
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 associated protein from bovine endothelial cells
US-09-193-562D-3

Alignment Scores:
Pred. No.:      2,29e-19          length:      203
Score:          195.00           Matches:     39
Percent Similarity: 71.43%       Conservative: 11
Best Local Similarity: 55.71%    Mismatches:   20
Query Match:     45.67%         Indels:       0
DB:              4               Gaps:         0

US-09-049-696-14 (1-248) x US-09-193-562D-3 (1-203)
QY      33 ATTAATCTGACTTGAGACAGCTCCTGGGATATTATGACCATGGAACAGCTCACAAGTAT 92
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
        75 IleglnLeusertprhlrlaproglyAsnvalleuaspysglylsAlaAsnsertyr 94
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
QY      93 AHCATTCGATAAGTACAAAGTATTTCTTGATCTGAGAGCAAGTCCATCATGATCTCTCAA 152
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
Db       95 IleIlearglleserlyserrhemetaSparglIngluspheaspaAlathleu 114
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
QY      153 GTGAATACACTGCTCTGCATCCCAAGAAGCCAACTGACAGAACTTTTGTAA 212
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
Db       115 ValastThrsermsneuileProlysgluAlaglyserlysgluasnPhegluphelys 134
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
QY      213 CCAGAAAACATTACTTTGAAAAATGGCACA 242
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
Db       135 ProgluhIsPhearValgluaSnglyThr 144
        ||| |:::|||||||:::||||| ||| ||| ||::: |||

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.:      4.04e-19          length:      905
Score:          195.00           Matches:     39
Percent Similarity: 71.43%       Conservative: 11
Best Local Similarity: 55.71%    Mismatches:   20
Query Match:     45.67%         Indels:       0
DB:              4               Gaps:         0

US-09-049-696-14 (1-248) x US-09-193-562D-2 (1-905)
QY      33 ATTAATCTGACTTGAGACAGCTCCTGGGATATTATGACCATGGAACAGCTCACAAGTAT 92
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
Db       777 IlgelnLeusertprhlrlalaproglyAsnvalleuaspysglylsAlaAsnsertyr 796
        ||| |:::|||||||:::||||| ||| ||| ||::: |||
QY      93 ATCAATCGAATAGTACAAAGTATTTCTTGATCTGAGAGCAAGTCCATCATGATCTCTCAA 152
        ||| |:::|||||||:::||||| ||| ||| ||::: |||

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Db      797  lLeilearqllleSerlysserPhemeLaspArgInglunspheaspaSnAlaThrLeu 816
QY      153  GTGAATACTACTGCTTCATCCCAAGAGACCACACTGTGAGAACGCTTTTGTTTAA 212
          |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::|||||
Db      817  ValasnThserAenluilleProLySGluIaGlSerlySSgluaSpnhegLuPheLyS 836
QY      213  CCAGAAAACATTACTTTTGAAAAATGGCAC 242
          |||||:::|||||:::|||||:::|||||:::|||||:::|||||
Db      837  ProGluHISpheargValGIuasnglyThr 846

RESULT 8
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithellum (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.:           2.07e-18              Length:           903
Score:               190.00                 Matches:            39
Percent Similarity: 69.01%                  Conservative:       10
Best Local Similarity: 54.93%                Mismatches:         22
Query Match:         44.50%                   Indels:             0
DB:                  4                      Gaps:              0

US-09-049-696-14 (1-248) x US-09-193-562D-46 (1-903)
QY      33  ATTAAATCGACTTGCAGACGCTCTCGGGAGTAGTATTGACCAAGAGAAGCCTCACAGTAT 92
          |||  |||:::|||||:::|||||:::|||||:::|||||:::|||||:::|||||
Db      775  lleGlnleSerTyrPThrAlaProAlaasnValIeuAspLySGlYslaslnserrtyr 794
          |||leGlnleSerTyrPThrAlaProAlaasnValIeuAspLySGlYslaslnserrtyr 794
QY      93  ATCATCTGAAATAAGACAAAGTATTTCTGATCTCAGAGACAATGTAATGAATCTTTCAA 152
          |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::|||||
Db      795  llelleargllleSerlysserPheluAspLeuglnlysaSPheaspaSnlaThrLeu 814
          |||||lelleargllleSerlysserPheluAspLeuglnlysaSPheaspaSnlaThrLeu 814
QY      153  GTGAATACTACTGCTCTCATCCCAAGAGCCAACCTGTGAGAAAGTCTTTTGTTTAA 212
          |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::|||||
Db      815  ValasnThserSerleuLySProLySGluIaGlSerAspGIuasnglyThrAsn 834
          |||||ValasnThserSerleuLySProLySGluIaGlSerAspGIuasnglyThrAsn 834
QY      213  CCAGAAAACATTACTTTTGAAAAATGGCACAGAT 245
          |||||CCAGAAAACATTACTTTTGAAAAATGGCACAGAT 245
Db      835  ProGluProPheargllleGIuasnglyThrAsn 845
          |||||ProGluProPheargllleGIuasnglyThrAsn 845

RESULT 9
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17

```


NUMBER OF SEQ ID NOS: 47
SEQ ID NO 30
LENGTH: 1000
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:

Pred. No.:	2,53e-18	Length:	1000
Score:	189.50	Matches:	41
Percent Similarity:	63.75%	Conservative:	10
Best Local Similarity:	51.25%	Mismatches:	28
Query Match:	44.38%	Indels:	1
DB:	4	Gaps:	1

US-09-049-696-14 (1-248) x US-09-193-562D-30 (1-1000)

3 CTGAAGCGGAAATTCACGGGGGAGCTCTCATTTAATCTGACTTGACAGCTCTGGGAT 62
|||||
784 LeuGlnAlaLysPheGlnGlyAspHis--IleGlnLeuSerTrpThrAlaProGlyLys 802
|||
QY 63 GATTATGCACATGACAGCTCACAAGTATATCATTCGAATAGTACAGTATTCTGAT 122
|||
Db 803 ValLeuAspLysGlyArgAlaGluSerTrpIleArgIleSerLysHisPheLeuAsp 822
|||
QY 123 CTCAGACAGACAGTTCATGAAATCTCTTCAGAGTACTACTGCTCTCATCCCAAGGAA 182
|||||
Db 823 LeuGlnGluAspPheAspLysAlaAlaLeuIleAsnTrpSerGlyLeuIleProLysGlu 842
|||
QY 183 GCCAATCTGAGGAGATCTTTTGTATTAAACCGAAGAAACATTACTTTTGAAATGCGACA 242
|||
Db 843 ProGlySerValGluSerPheGluPheGluProSerLysIleGluAsnIleThr 862
|||

RESULT 10

US-09-193-562D-32
Sequence 32, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
CURRENT APPLICATION NUMBER: US/09/193,562D
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 32
LENGTH: 943
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:

Pred. No.:	5.34e-14	Length:	943
Score:	159.00	Matches:	30
Percent Similarity:	66.20%	Conservative:	17
Best Local Similarity:	42.25%	Mismatches:	22
Query Match:	37.24%	Indels:	2
DB:	4	Gaps:	1

US-09-049-696-14 (1-248) x US-09-193-562D-32 (1-943)

QY 33 ATTAATCTGACTTGACAGCTCTCGGAGTATTATGACCATGAGACAGCTCACAAGTAT 92
|||
Db 781 LeuTrpLeuSerTrpThrAlaProGlyLysAspPheAspGlnGlyAlaThrSerTrp 800
|||
QY 93 ATCATTCGAATAGTACAGATATCTTGATCTCAGACAGTACAGTAAAGATCTCTTCAA 152
|||||
Db 801 GluIleArgMetSerLysSerLeuGlnAsnIleGlnAspAspPheAsnAlaIleLeu 820
|||||
QY 153 GTGAATACTACTGCTCTCATCCCAAGAGACCAACTCTGAGAGAGTCTTTTGTAA 212
|||||

Db 821 ValAsnTrpSerLysArgAsnProGlnGlnAlaGlyIleArgGluIlePheThrPheSer 840
QY 213 CCAGAAACATTACTTTGAAATGGCACAGAT 245
|||
Db 841 ProGlnIleSerThr-----AsnGlyProGlu 849
|||

RESULT 11

US-08-726-227-1
Sequence 1, Application US/08726227
Patent No. 5780235
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Hillman, Jennifer L.
TITLE OF INVENTION: NOVEL HUMAN VOLTAGE-DEPENDENT
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/726,227
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0135 US
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 283 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY:
CLONE: Consensus
US-08-726-227-1

Alignment Scores:

Pred. No.:	0.207	Length:	283
Score:	69.00	Matches:	20
Percent Similarity:	45.16%	Conservative:	8
Best Local Similarity:	32.26%	Mismatches:	14
Query Match:	16.16%	Indels:	20
DB:	1	Gaps:	2

US-09-049-696-14 (1-248) x US-08-726-227-1 (1-283)

QY 21 GGGGAGCTCTC-----ATTATCTGACTTGG 47
|||||
Db 191 GAGTCTCTGAGGATGATTATGACCATGAGACAGCTCACAAGTAT 210
|||
QY 48 ACAGTCTCTGAGGATGATTATGACCATGAGACAGCTCACAAGTATGCAATAGT 107
|||||
Db 211 ThrAlaGlySerAsnAsnThrArgPheGlyIleAlaAlaLysTrpMetLeuAspCysArg 230
|||||
QY 108 ACAAGTATCTTGATCTCAGACAGATTCATGAATCTTCAAGTGAATACTACTGCT 167
|||||

Db 231 ThrSerIeu-----SerAlaIysValaAsnAlaSer 241

QY 168 CTCATC 173
|||||
Db 242 LeuIle 243

RESULT 12
US-08-826-246-6
; Sequence 6, Application US/08826246
; Patent No. 6048709
; GENERAL INFORMATION:
; APPLICANT: Falb, Dean
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: THE TREATMENT AND DIAGNOSIS OF
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/826,246
FILING DATE: 28-MAR-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/799,910
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/011,787
FILING DATE: 16-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-078-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)7909090
TELEFAX: (212)8699741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 283 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
US-08-826-246-6

Alignment Scores:
Pred. No.: 0.207 Length: 283
Score: 69.00 Matches: 20
Percent Similarity: 45.16% Conservative: 8
Best Local Similarity: 32.26% Mismatches: 14
Query Match: 16.16% Indels: 20
DB: 3 Gaps: 2

US-09-049-696-14 (1-248) x US-08-826-246-6 (1-283)

QY 21 GGGGGCAGTCTC-----ATTAATCTGACTTG 47
|||||
Db 191 GlyIySerIleTyrgInIysValaEngIuIySIlleGIuThrSerIleAsnLeuAlaTrp 210

QY 48 ACAGCTCCGCGGATATATATGACCATGGAACAGCTCACAGATATATCATTCGAATAAGT 107
|||||
Db 211 ThrAlaGlySerAsnAsnThrArgPheGlyIleAlaIaIaIyStrIyMetLeuAspCysArg 230

QY 108 ACAAGTATCTGTGATCTCAGACAGATTCATGATCTCTTCAGTGAATACTACTGCT 167
|||||
Db 231 ThrSerIeu-----SerAlaIysValaAsnAlaSer 241

QY 168 CTCATC 173
|||||
Db 242 LeuIle 243

RESULT 13
US-08-944-495-6
; Sequence 6, Application US/08944495
; Patent No. 6087477
; GENERAL INFORMATION:
; APPLICANT: Falb, Dean
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: THE TREATMENT AND DIAGNOSIS OF
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,495
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/799,910
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-067-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)7909090
TELEFAX: (212)8699741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 283 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
US-08-944-495-6

Alignment Scores:
Pred. No.: 0.207 Length: 283
Score: 69.00 Matches: 20
Percent Similarity: 45.16% Conservative: 8
Best Local Similarity: 32.26% Mismatches: 14
Query Match: 16.16% Indels: 20
DB: 3 Gaps: 2

US-09-049-696-14 (1-248) x US-08-944-495-6 (1-283)

QY 21 GGGGGCAGTCTC-----ATTAATCTGACTTG 47
|||||
Db 191 GlyIySerIleTyrgInIysValaEngIuIySIlleGIuThrSerIleAsnLeuAlaTrp 210

QY 48 ACAGCTCCGCGGATATATATGACCATGGAACAGCTCACAGATATATCATTCGAATAAGT 107
|||||
Db 211 ThrAlaGlySerAsnAsnThrArgPheGlyIleAlaIaIaIyStrIyMetLeuAspCysArg 230

OY 108 ACAAGTATCTTGATCTGACAGACAGATTCATGATCTCTTCAAGTACTACTGCT 167
|||||
Db 231 ThrSerLeu-----SerAlaIysValAsnAsnAlaser 241

OY 168 CTCATC 173
|||||
Db 242 LeuIle 243

RESULT 14
US-09-126-640-9
; Sequence 9, Application US/09126640A
; Patent No. 6099823
; GENERAL INFORMATION:
; APPLICANT: FALB, Dean A.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE
; FILE REFERENCE: 7853-126
; CURRENT APPLICATION NUMBER: US/09/126,640A
; CURRENT FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 08/870,434
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 08/799,910
; EARLIER FILING DATE: 1997-02-13
; EARLIER APPLICATION NUMBER: 60/011,787
; EARLIER FILING DATE: 1996-02-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 283
; TYPE: PRP
; ORGANISM: Homo sapiens
US-09-126-640-9

Alignment Scores:
Pred. No.: 0.207 Length: 283
Score: 69.00 Matches: 20
Percent Similarity: 45.16% Conservative: 8
Best Local Similarity: 32.26% Mismatches: 14
Query Match: 16.16% Indels: 20
DB: 3 Gaps: 2

US-09-049-696-14 (1-248) x US-09-126-640-9 (1-283)

OY 21 GGGGGCAGCTC-----ATTATCTGACTTGG 47
|||||
Db 191 GlyGlySerIleTyrGlnIysValAsnGluysIleGluThrSerIleAsnLeuAlaTrp 210
OY 48 ACAGCTCTGGGATGATTATGACCATGACAGCTCACAGTATATCTTCGAATAAGT 107
|||||
Db 211 ThrAlaGlySerAsnAsnThrArgPheGlyIleAlaAlaIysTyrMetLeuAspCysArg 230
OY 108 ACAAGTATCTTGATCTGACAGACAGATTCATGATCTCTTCAAGTACTACTGCT 167
|||||
Db 231 ThrSerLeu-----SerAlaIysValAsnAsnAlaser 241
OY 168 CTCATC 173
|||||
Db 242 LeuIle 243

RESULT 15
US-08-925-588-6
; Sequence 6, Application US/08925588
; Patent No. 6221628
; GENERAL INFORMATION:
; APPLICANT: FALB, Dean

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; THE TREATMENT AND DIAGNOSIS OF
; CARDIOVASCULAR DISEASE
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESS: PENNIE & EDMONDS LLP
; STREET: 1155 Avenue of the Americas

CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/925,588
FILING DATE: 08-Sep-1997
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/799,910
FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-067-999

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)7909090
TELEFAX: (212)8699741
TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 283 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
MOLECULE TYPE: protein
FRAGMENT TYPE: internal

SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-08-925-588-6

Alignment Scores:
Pred. No.: 0.207 Length: 283
Score: 69.00 Matches: 20
Percent Similarity: 45.16% Conservative: 8
Best Local Similarity: 32.26% Mismatches: 14
Query Match: 16.16% Indels: 20
DB: 4 Gaps: 2

US-09-049-696-14 (1-248) x US-08-925-588-6 (1-283)

OY 21 GGGGGCAGCTC-----ATTATCTGACTTGG 47
|||||
Db 191 GlyGlySerIleTyrGlnIysValAsnGluysIleGluThrSerIleAsnLeuAlaTrp 210
OY 48 ACAGCTCTGGGATGATTATGACCATGACAGCTCACAGTATATCTTCGAATAAGT 107
|||||
Db 211 ThrAlaGlySerAsnAsnThrArgPheGlyIleAlaAlaIysTyrMetLeuAspCysArg 230
OY 108 ACAAGTATCTTGATCTGACAGACAGATTCATGATCTCTTCAAGTACTACTGCT 167
|||||
Db 231 ThrSerLeu-----SerAlaIysValAsnAsnAlaser 241
OY 168 CTCATC 173
|||||
Db 242 LeuIle 243

Search completed: October 17, 2002, 17:59:39
Job time : 8.96588 secs

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OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 : Search time 101.36 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-18
Perfect score: 2813
Sequence: 1 GAATTCACAGGAGATGTAC.....AAATTAATCATTCCTTA 2813

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Archived: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA: *
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2: /cgn2_6/plodata/2/1na/5B_COMB.seq: *
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4: /cgn2_6/plodata/2/1na/6B_COMB.seq: *
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6: /cgn2_6/plodata/2/1na/Backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2807.2	99.8	3007	4	US-09-193-562D-27
2	900.2	32.0	3317	4	US-09-193-562D-1
3	840.6	29.9	3022	4	US-09-193-562D-33
4	832.6	29.6	3418	4	US-09-193-562D-29
5	780.8	27.8	878	1	US-08-463-667-8
6	780.8	27.8	878	1	US-09-224-110-8
7	780.8	27.8	878	5	PCT-US95-07289-8
8	552.2	19.6	2970	4	US-09-193-562D-31
9	323.8	11.5	401	4	US-09-221-298-34
10	228.2	8.1	576	4	US-09-385-982-23
11	221.4	7.9	595	4	US-09-385-982-25
12	200.8	7.1	618	4	US-09-385-982-24
13	183.4	6.5	611	4	US-09-385-982-27
14	168.6	6.0	742	4	US-09-385-982-33
15	95.4	3.4	335	4	US-09-193-562D-14
16	52	1.8	7218	1	US-08-233-463-14
17	38.6	1.4	5156	2	US-09-091-432-3
18	35.6	1.3	4211	4	US-09-004-838-106
19	35	1.2	1794	3	US-09-012-515A-13
20	35	1.2	1794	3	US-08-360-144A-13
21	35	1.2	1794	5	PCT-US95-06722-13
22	34.8	1.2	6924	1	US-08-015-973-2
23	34.8	1.2	6924	2	US-08-448-164-2
24	34	1.2	3600	4	US-08-855-910-7
25	34	1.2	5319	1	US-08-169-927-1
26	33.8	1.2	3447	1	US-08-252-995D-3
27	33.8	1.2	3447	2	US-08-834-108-3

c	28	33.2	1.2	2520	2	US-08-454-557C-50	Sequence 50, Appl
c	29	33.2	1.2	2520	2	US-08-340-426D-50	Sequence 50, Appl
c	30	33.2	1.2	2520	2	US-08-450-673C-50	Sequence 50, Appl
c	31	33.2	1.2	2520	5	PCT-US95-17111A-50	Sequence 50, Appl
c	32	33	1.2	1984	1	US-07-885-970A-25	Sequence 25, Appl
c	33	33	1.2	1985	1	US-08-298-687A-25	Sequence 25, Appl
c	34	33	1.2	1985	1	US-08-298-829-25	Sequence 25, Appl
c	35	33	1.2	2615	1	US-08-072-281-1	Sequence 1, Appl
c	36	33	1.2	2615	1	US-08-759-446-1	Sequence 1, Appl
c	37	33	1.2	2615	4	US-09-027-998A-1	Sequence 1, Appl
c	38	33	1.2	3050	2	US-09-031-442A-21	Sequence 21, Appl
c	39	33	1.2	3050	4	US-09-258-377-21	Sequence 21, Appl
c	40	32.8	1.2	1534	1	US-08-300-903A-6	Sequence 6, Appl
c	41	32.8	1.2	1838	2	US-09-091-432-1	Sequence 1, Appl
c	42	32.6	1.2	2369	2	US-08-910-925-2	Sequence 2, Appl
c	43	32.4	1.2	1117	4	US-09-247-373B-33	Sequence 33, Appl
c	44	32.4	1.2	1423	4	US-08-916-576B-3	Sequence 3, Appl
c	45	32	1.1	430	4	US-08-905-223-235	Sequence 235, App

ALIGNMENTS

RESULT 1									
US-09-193-562D-27									
Sequence 27, Application US/09193562D									
Patent No. 6309857									
GENERAL INFORMATION:									
APPLICANT: Pauli, Benedicht U.									
TITLE OF INVENTION: Nucleotide sequences Encoding Mammalian Calcium									
FILE REFERENCE: 16617 0052									
CURRENT APPLICATION NUMBER: US/09/193, 562D									
CURRENT FILING DATE: 1998-11-17									
PRIOR APPLICATION NUMBER: US/60/065, 922									
PRIOR FILING DATE: 1997-11-17									
NUMBER OF SEQ ID NOS: 47									
SEQ ID NO 27									
LENGTH: 3007									
TYPE: DNA									
ORGANISM: Homo sapiens									
US-09-193-562D-27									
Query Match									
Best Local Similarity 99.9%: Score 2807.2; DB 4; Length 3007;									
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;									
Oy	1	GAATTCACAGGAGATGTACAGCATGAGGCGCATTTAGAGTCTGTTGATCTTGATT	60						
Db	23	GAATTCACAGGAGATGTACAGCATGAGGCGCATTTAGAGTCTGTTGATCTTGATT	82						
Oy	61	CTTACCTCTAGAGGGGCGGTAGTATCTACTCATTCAGCTGACACAGATGGCTAT	120						
Db	83	CTTACCTCTAGAGGGGCGGTAGTATCTACTCATTCAGCTGACACAGATGGCTAT	142						
Oy	121	GAGGCGATTTGCTGTCATATGACCCCAATGTCAGAGATGAAACCTCATCAACAA	180						
Db	143	GAGGCGATTTGCTGTCATATGACCCCAATGTCAGAGATGAAACCTCATCAACAA	202						
Oy	181	ATAAAGACATGTCAGACCATCTGATCTGTTGAAAGTACAGAAAGCATTT	240						
Db	203	ATAAAGACATGTCAGACCATCTGATCTGTTGAAAGTACAGAAAGCATTT	262						
Oy	241	TATTTCAAAATGTTGCCATTTTGTCTGAAACATGGAAGACAAAGCTGATGTG	300						
Db	263	TATTTCAAAATGTTGCCATTTTGTCTGAAACATGGAAGACAAAGCTGATGTG	322						
Oy	301	AGACCAAACTTGAGACCTACAAAATGCTGATGTTGCTGATGATGCTGATGCTCA	360						
Db	323	AGACCAAACTTGAGACCTACAAAATGCTGATGTTGCTGATGATGCTGATGCTCA	382						
Oy	361	GCTATGATGAACCTTACAGTACAGATGGCACTGTGAGAGAAAGGTGAAGATC	420						

Db 383 GGTAATGATGAACCCCTACATGAGCAGATGGCCAACTGTGAGAGAGAGGGGTGAAGATC 442
Qy 421 CACCTCAGTCTGATTTTCATTGCGAGAAAAAGTATGCTGAATATGGACCACAGGTAG 480
Db 443 CACCTCAGTCTGATTTTCATTGCGAGAAAAAGTATGCTGAATATGGACCACAGGTAG 502
Qy 481 GCATTGTCCATGAGTGGGCTCATCTACGATGGGGAGTATTTGACAGATATCAATATGAT 540
Db 503 GCATTGTCCATGAGTGGGCTCATCTACGATGGGGAGTATTTGACAGATATCAATATGAT 562
Qy 541 GAGAAATTTCTACTTATCCATGAGAAATACAGCAGTATGATGTTTACAGAGTATTTACT 600
Db 563 GAGAAATTTCTACTTATCCATGAGAAATACAGCAGTATGATGTTTACAGAGTATTTACT 622
Qy 601 GGTACAAATGTATTAAGAAGTGTGAGGAGCAGCTGTTACGCCAAAAGATGTACATTC 660
Db 623 GGTACAAATGTATTAAGAAGTGTGAGGAGCAGCTGTTACGCCAAAAGATGTACATTC 682
Qy 661 AATAAGTAAACAGACCTATGAAAAAGATGTGAGTGTGTTCTCCAAATCCCGCAGAG 720
Db 683 AATAAGTAAACAGACCTATGAAAAAGATGTGAGTGTGTTCTCCAAATCCCGCAGAG 742
Qy 721 GAGAGGCTTCTAATATGTTTGACAAACATGTTGATTCATAGTGAATTCGTACAGAA 780
Db 743 GAGAGGCTTCTAATATGTTTGACAAACATGTTGATTCATAGTGAATTCGTACAGAA 802
Qy 781 CAAAACCAACAAGAAGTCCAAACAGCAAAATCAAAATGCAATCTCCGAGACAA 840
Db 803 CAAAACCAACAAGAAGTCCAAACAGCAAAATCAAAATGCAATCTCCGAGACAA 862
Qy 841 TGGAGAGTATCCGCTGATTTGAGACTTTTAAAGAAACCACTCCTATGACACAGCCA 900
Db 863 TGGAGAGTATCCGCTGATTTGAGACTTTTAAAGAAACCACTCCTATGACACAGCCA 922
Qy 901 CCAATCCACCTTCTCATTTGCTGACAGATTTGACAAAAGATTTGTGTTTAGTCTTGAC 960
Db 923 CCAATCCACCTTCTCATTTGCTGACAGATTTGACAAAAGATTTGTGTTTAGTCTTGAC 982
Qy 961 AATATGAGAGCAATGGGAGCTGGTAACCGCTCAATGATGATCAAGCAGGCGAGCTT 1020
Db 983 AATATGAGAGCAATGGGAGCTGGTAACCGCTCAATGATGATCAAGCAGGCGAGCTT 1042
Qy 1021 TTCTGCTGAGAGAGTGTGAGCTGGGGTCTCTGGGTTGGATGGTGAATTTGACAGTGT 1080
Db 1043 TTCTGCTGAGAGAGTGTGAGCTGGGGTCTCTGGGTTGGATGGTGAATTTGACAGTGT 1102
Qy 1081 GCCCATATTAAGAAGTCACTATCAATGATTAAGCAAGTGGCAGTGAACAGGACACCTGCC 1140
Db 1103 GCCCATATTAAGAAGTCACTATCAATGATTAAGCAAGTGGCAGTGAACAGGACACCTGCC 1162
Qy 1141 AAAAGATTACCTGAGAGCTTTCAGAGGAGCGTCATCTGACGCGGGCTTCGATCGGCA 1200
Db 1163 AAAAGATTACCTGAGAGCTTTCAGAGGAGCGTCATCTGACGCGGGCTTCGATCGGCA 1222
Qy 1201 TTTACTGTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1260
Db 1223 TTTACTGTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1282
Qy 1261 GGGGAACAACAACATTAATAGTGGGTGCTTTAGCAGAGTCAAAACAATGGTGGCATATC 1320
Db 1283 GGGGAACAACAACATTAATAGTGGGTGCTTTAGCAGAGTCAAAACAATGGTGGCATATC 1342
Qy 1321 CACACAGTGGCTTTGGGGCCCTCTGACGCTCAAGACATAGAGAGCTGTCCAAATGACA 1380
Db 1343 CACACAGTGGCTTTGGGGCCCTCTGACGCTCAAGACATAGAGAGCTGTCCAAATGACA 1402
Qy 1381 GGAGTTTACAGACATATGCTTCAGATCAAGTTGAGAAACATGGCCATTTGATGCTTTT 1440
Db 1403 GGAGTTTACAGACATATGCTTCAGATCAAGTTGAGAAACATGGCCATTTGATGCTTTT 1462
Qy 1441 GGGGCCCTTTTCATAGAAATGAGCTGTCTCTAGCGCTCATCAGCTTGAAGATAG 1500
Db 1463 GGGGCCCTTTTCATAGAAATGAGCTGTCTCTAGCGCTCATCAGCTTGAAGATAG 1522

Qy 1501 GGATTAACCTCCAGAACAGCCAGTGAATGATGGCACAGTATGTTGGACAGCACCGTG 1560
Db 1523 GGATTAACCTCCAGAACAGCCAGTGAATGATGGCACAGTATGTTGGACAGCACCGTG 1582
Qy 1561 GGAAAGCACCTTTGTTCTTATACCTGAGACAGCAGCCTCCCAATCTTCTGTGG 1620
Db 1583 GGAAAGCACCTTTGTTCTTATACCTGAGACAGCAGCCTCCCAATCTTCTGTGG 1642
Qy 1621 GATCCAGTGGACAGAAAGTGGCTTTGATGGAGAACAAAAACCAAAATGGGCTTAC 1680
Db 1643 GATCCAGTGGACAGAAAGTGGCTTTGATGGAGAACAAAAACCAAAATGGGCTTAC 1702
Qy 1681 CTCCAAATCCAGGCAATTTCTAAGTTGGCACTTGGAAATATACAGTGTCAAGCAAGTCA 1740
Db 1703 CTCCAAATCCAGGCAATTTCTAAGTTGGCACTTGGAAATATACAGTGTCAAGCAAGTCA 1762
Qy 1741 CAAACCTTGACCTGACTGTCAAGTCCGCTCCATGCTACCTGCTCCATTTACA 1800
Db 1763 CAAACCTTGACCTGACTGTCAAGTCCGCTCCATGCTACCTGCTCCATTTACA 1822
Qy 1801 GTGACTTCCAAAACGAAAGAACACCAAGTAATCCAGGCTGTGTAGTTATGCA 1860
Db 1823 GTGACTTCCAAAACGAAAGAACACCAAGTAATCCAGGCTGTGTAGTTATGCA 1882
Qy 1861 AATATTCGCCAAGAGAGCTTCCCAATTTCTAGGGCCAGTGTACAGACCTGATTAATCA 1920
Db 1883 AATATTCGCCAAGAGAGCTTCCCAATTTCTAGGGCCAGTGTACAGACCTGATTAATCA 1942
Qy 1921 GTGAAATGAAAAACAGTATCTTTGGAACATCTGATTAATGAGAGAGTGTCTATCTACT 1980
Db 1943 GTGAAATGAAAAACAGTATCTTTGGAACATCTGATTAATGAGAGAGTGTCTATCTACT 2002
Qy 1981 AAGATGAGCGGTGTCTACCAAGTATTTACAACTTATGACAGCAATGTGATGATCACT 2040
Db 2003 AAGATGAGCGGTGTCTACCAAGTATTTACAACTTATGACAGCAATGTGATGATCACT 2062
Qy 2041 GTAAAAGTGGGGCTCTGGGAGAGTTAAACGACGACGAGAGTATPCCCCAGCAG 2100
Db 2063 GTAAAAGTGGGGCTCTGGGAGAGTTAAACGACGAGAGAGTATPCCCCAGCAG 2122
Qy 2101 AGTGGAGCACTGTACATTTCTGCTGATTTGGAATGGAATTAATGGAATCCAGCA 2160
Db 2123 AGTGGAGCACTGTACATTTCTGCTGATTTGGAATGGAATTAATGGAATCCAGCA 2182
Qy 2161 AGACCTGAATTAATTAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC 2220
Db 2183 AGACCTGAATTAATTAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC 2242
Qy 2221 TGGGAGGGCTCATTTGCTGTGATGTCCAAATGCTCCATTTACTGATCTTTCCCA 2280
Db 2243 TGGGAGGGCTCATTTGCTGTGATGTCCAAATGCTCCATTTACTGATCTTTCCCA 2302
Qy 2281 CTTGGCCAAATTCACCACTGGAAGGGGAAATTCAGGGGGCGCTCATTTAATCTGACT 2340
Db 2303 CTTGGCCAAATTCACCACTGGAAGGGGAAATTCAGGGGGCGCTCATTTAATCTGACT 2362
Qy 2341 TGGACAGCTCTGGGGATGTTATGACCATGGAACGCTCACAAATATCATTTGCAATA 2400
Db 2363 TGGACAGCTCTGGGGATGTTATGACCATGGAACAGCTCACAAATATCATTTGCAATA 2422
Qy 2401 AGTACAAATTTCTTGTATCTACAGACAGTCAATGATCTTTCAAGTGAATTTACTACT 2460
Db 2423 AGTACAAATTTCTTGTATCTACAGACAGTCAATGATCTTTCAAGTGAATTTACTACT 2482
Qy 2461 GCTCTCATCCCAAGAGAACCACTGAGAGAGTCTTTGTTTAAACAGAAAACAT 2520
Db 2483 GCTCTCATCCCAAGAGAACCACTGAGAGAGTCTTTGTTTAAACAGAAAACAT 2542
Qy 2521 ACTTTGAAAATGAGCAGATCTTTTCATTTGCTATTCAGGCTGTGATTAAGTGTGATCTG 2580
Db 2543 ACTTTGAAAATGAGCAGATCTTTTCATTTGCTATTCAGGCTGTGATTAAGTGTGATCTG 2602

Qy	2501	AAATCAGAAATATTCACACATTTGGACGAGATATCTTTTGTATTATCTTCACACAGACTCCGCA	2640
Db	2603	AAATCAGAAATATTCACACATTTGGACGAGATATCTTTTGTATTATCTTCACACAGACTCCGCA	2662
Qy	2641	GAGACACCTATGCTCTGATGAAAGCTGCGCTCGTCCATATTCATATCAACAGACAC	2700
Db	2663	GAGACACCTATGCTCTGATGAAAGCTGCTCGTCCATATTCATATCAACAGACAC	2722
Qy	2701	ATTCCTGGCATTCACATTTTAAAAATTTATGTGAACTGGATAGAGAACTGCAGCTGTCA	2760
Db	2723	ATTCCTGGCATTCACATTTTAAAAATTTATGTGAACTGGATAGAGAACTGCAGCTGTCA	2782
Qy	2761	ATACCCGAGGCGTAATTTTGTCAATATAATTAATTAATCATTCATCCCTT	2812
Db	2783	ATACCCGAGGCGTAATTTTGTCAATATAATTAATTAATCATTCATCCCTT	2834

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SEQUENCE 2
US-09-193-562D-1
Sequence 1, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 1
LENGTH: 3317
TYPE: DNA
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

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[illegible]

Db	460	TTACTCCAAACTTTGTTGTGACTAATTAATTCACATCTATGGGTCCGAGCCAGACAGAT	519
Oy	485	TTGTGCATGAGTGGGCGTCATACGATGAGGGAGATATTTGACGATCAATTAATGATAGA	544
Db	520	TTGTCCATGAGTGGGCCATCTCCGCTGGGGAAATATTTGATGATTAATGTGGACACGC	579
Oy	545	AATTCCTACTATCC--AATGGAAGAATACACAGTAGATGTTCCAGCAGGATATTACTG	601
Db	580	CATTCTAATTTTCCAGAAAGAACATCTATGACCAACAAAGATGTTCACTCATATATTACTG	639
Oy	602	GTACAAATGTAG---TAAGAGTGTACGGGAGCCAGCTGTTACACCACAAAGATCCACAT	658
Db	640	GTATTAAATGTGTTTCCAGAAATGCCCCCTGGAGCGAGCTGTAATACMACTCATCTACAGC	699
Oy	659	TCAATAAAGTAAACGAGCTCATGAAAAAAGAGATGATGTTGTGTTCCCAATCCGCCGAGA	718
Db	700	GTGACTCCAGACAGCGGCTGATATGACCAAAATGTAATCATTTCTTCCAAAAAATCCCGA	759
Oy	719	CGGAGAAAGCTTCTATATGTGTTGTCACACATCTTATTTCTATGTTGAATTCGTACAG	778
Db	760	CTGCAAGAGATCCATTAATGTTTATGTCGAAGTCCCATTTCTGACTGAATGTAATTTGTACG	819
Oy	779	AACAAACCCACACAAGAAAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGACGA	838
Db	820	AAAAAACACACAATACAGAAAGCTCCAAACCTCAAAAACAAAATGTGCAATGCAAAACGA	879
Oy	839	CATGGGAAGTATCCGCGATTTCTGAGGACTTTAAGAAAAACACTCCTATAGACA-----A	892
Db	880	CATGGGAGTAAATCATGTAACCTCTGTGGACCTTTCAGATACATCTCCACAGACAAATGA	939
Oy	893	CACAGCCACCAATCCGACCTCTCATTTGCTGGACATTTGGACAAAGAAATGTGTTTAG	952
Db	940	ATCCACCGACTCATCTCATATTTCTATTTGCTCAAGTCCAAACGCGGTAAGTCTTTGG	999
Oy	953	TCCTTGACAAATCTGGAAGCATGGCGACTGTAACCGCTCAATGACTGAATCAAGCAG	1012
Db	1000	TACTTGATTAATCTGGAAGCATGTCTGCAGAAACCGCTCTTTCAATGAATCAAGCAG	1059
Oy	1013	GCCAGCTTTCTCTCTGCAGACAGTGTAGCTGGGGTCTGGGTTGGGATGTGACATTTG	1072
Db	1060	CAGAACTATACTTTATTTCAAGTATTAAGAAAGGAATCTTTAGTGGGAGGTAAATTTG	1119
Oy	1073	ACAGTGTGCCCATGTACAAAGTAACTCTACAGTAAACAGTGGCAGTGCAGGAGCA	1132
Db	1120	ACAGTGTGCGAAATCCAAATCATCTTAACAAGAAATTACTGATGATATGTTACCAA	1179
Oy	1133	CACTCGCCAAAAAGTTACTCTGCAGCAGCTTCAGAGGAGCTCCATCTGCAGCGGGCTTC	1192
Db	1180	AGATCACCGCAAAACTCCTCCTCAGATAGCTAATGTGGAATCTCAATTGTGTAAGGGCTCA	1239
Oy	1193	GATGGCATTTACTGTGATTAAGAAAG---AATATCCACTGATGATCTGAAATTTGTC	1249
Db	1240	AAGAGAGTTTCCAGGCAATTAATCCACAGTACCAGAGTACTTCTGTGTTGAAATCAAC	1299
Oy	1250	TGCTGACGAGTGGGAGAGACACATATAAGTGGGTCTTAACGAGGTCACAAACAATG	1309
Db	1300	TATTTAATCGATGGGGAAGATATGAAATTAATTTCAATCTTTGAGGATGTAAAAACAATG	1359
Oy	1310	GTGCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGT	1369
Db	1360	GTGCATATCATCCACACCATCTGTCTGGAGCCCTCTCTGCCAAAACAAGTGAGACATTTG	1419
Oy	1370	CCAAATATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAAATGGCCCTCA	1429
Db	1420	CAAAATATGACAGAGGATATCGTTTTTTTCCAAATTAACAATA-----ACTGCCCTTA	1473
Oy	1430	TTGATGCTTTTGGGGCCCTTTCATCCAGGAAATGAGACTTCTCTCAGCGCTCATCCAGC	1489
Db	1474	CTAATGCTTTCAGTGAATTTCTCTAGAAATGTGAAGCATCTCACTACAGGCTATATTCAT	1533
Oy	1490	TTGAGAGTAAGGGAATTAACCTCTCAGAACAGCCAGTGTGAATGTCACAGATGCTGG	1549

QY	1807	TCGAAACGAAACGAGACACACCAATTCGCCAGCCCTCGTGGTATGATCAAAATTT	1866
Db	1815	TGCTACATGAGTACAGAGACACGCCAGTACCTAGCCGATATGTGTACGACGGCTC	1874
QY	1867	CGCCAAAGGACCTCCCAATTCCTCAGAGGCCAGTGTACACGCCCTGATTTGAATCACTG	1926
Db	1875	AGCCAAAGATTTTGGCTGTCTGGAGGCAATGTGCACAGCCCTCATGAAAGCTGAACAT	1934
QY	1927	GGAAGAAACAGTTCCTTGGACTACTGTGATTAATGAGCAGCGTGTGATCTACTAAGAT	1986
Db	1935	GGACATCAAGTACCTTGGAGCTCTGGGACAAATGGGGCAGGTGCTGATATCGTTAAAT	1994
QY	1987	GAGCGTCTACACAGGATTTTCAACACTTATGACACGAAGGTAGATACAGTATAA	2046
Db	1995	GATGGCATCTPACACAAATACCTTTACAGATTTTATCATGAGAAATGTAGATACGCTTAA	2054
QY	2047	GTCGGGCGCTGTGGAGAGATTAACGACGACAGCGAGAGATATCCGACAGAGTGA	2106
Db	2055	GTCGGTCTCCAGGACCAAAACAAACAAACACAGCTAGCTTAAG- - -CAGAAGACAG	2111
QY	2107	GCACCTGACATCCCTGGCTGAGATTGGAATGATGAATCAATGGAATCCACAGACCT	2166
Db	2112	TCTTATATATACCTGGCTGTGGAAAAATGGTAAATGTACTGAATCCACCCAGACCA	2171
QY	2167	GAAATTAATAGATATGTTCAACACAAAGCAAGTGTGTTAGAGAAATCCTCGGGA	2226
Db	2172	GATGTCCAAACAAAGCCATAGAAAGCTACAGTGAAGACCTTACACAGATTAACCTTGGA	2231
QY	2227	GGCTCAT- - -TGTCGCTTCTGATGTGCCAAATGCTCCATACCTGATCTCTCCACCT	2283
Db	2232	GGGTCTGTTACTGTGTCTGGAGCGCCCTGATGGCGACACAGCTGTGTGTCTCCACCA	2291
QY	2284	GGCCAAATCACACGACTGAAGCGGGAATTCACGGGGCAGTCTCATTAATCTGACTTGG	2343
Db	2292	AGTAAAGTACAGACCGCTGGAGGCTGAGTTATAGTG- - -ATTATATTCACCTTACATGG	2348
QY	2344	ACAGCTCTTGGGATGATTATGACCATGGAACAGCTCACAAATATATCTGAAATAGT	2403
Db	2349	ACGGCCCTGGCAAGGTCTCGCAATGGAAGGCAACATAGTATCATCATCAAGATGAGC	2408
QY	2404	ACAAGTATTCCTATCTCAGACAGACAGTTCATAGATCTCTCAAGTAACTACTGCT	2463
Db	2409	CAGATCTCTGTGATCTCCAAAGATTTTAAATAGTACTTATAGTAACTCTCCAGT	2468
QY	2464	CTCATCCCAAGAGGACCACTCTGAGAGTCTTTTGGTTTAAACGAAAAACATTACT	2523
Db	2469	CTGATACCTAAAGAGGTGCTCAAAAAGACATTTAAATTCAAACGAAAACCTTTTAA	2528
QY	2524	TTTGAAATGGCACAGATCTTTTCATCTGCTATTCAGGCTGTGTGATAGGTGCATGAA	2583
Db	2529	ATACCAATGGATCCACAGCTCTCTCATTTGCAATTCAGAGGCGACAAAGAACGAGTCCAC	2588
QY	2584	TCGAATATTCACAACATGTGACAGAGTATCTTGTATTATCTCCACCA	2630
Db	2589	TCGTAGGTCTCAACATCGACAGGCTGTGCAGAGCTTACTTCTTAGA	2635
RESULT 4			
US-09-193-562D-29			
Sequence 29, Application US/09193562D			
Patent No. 6309857			
GENERAL INFORMATION:			
APPLICANT: Pauli, Benedicht U.			
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
FILE REFERENCE: 18617.0052			
CURRENT APPLICATION NUMBER: US/09/193,562D			
CURRENT FILING DATE: 1998-11-17			
PRIOR APPLICATION NUMBER: US/60/065,922			
PRIOR FILING DATE: 1997-11-17			
NUMBER OF SEQ ID NOS: 47			
SEQ ID NO 29			
LENGTH: 3418			


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Db 2077 TATTTTACAGATTACCATGTAATGTTAGATACAGTTTAAAGTCTTACCCAGGACAGA 2136
Qy 2065 GTTAAACGACGACGAGAGAGATGATACCCAGAGAGTGGACACTGTACATACCTGGC 2124
Db 2137 AAAAAACACAGCTAGGC-----TAACTCAACAACAGATAAAGCTCTGTATGATGCCG 2190
Qy 2125 TGGATTGAGATGATGAAATACATGGAATCCACCAAGACTGTAATTAATGAATGAT 2184
Db 2191 TATGCTGAATATGAAAAATTTATACGAAACCATCCAAACCTGAACTCAGATGATG 2250
Qy 2185 GTTCAACACACAGCAAGTGTGTTTACAGCAGAACATCTCGGAGGCTCATTTGGCTTCT 2244
Db 2251 GAAGGAGCTCAACACAGCACTTACAGACCTCCTCGAGGGGCTGTACTGTATCA 2310
Qy 2245 GATGT---CCCAATGCTCCCACTACCTGATCTCTTCCACCGGCAATCAACCGACCTG 2301
Db 2311 GGAGTGCCTCTTAATGTAATGTAATCTCTCAGGTGTTCTCAGCTGGTAATTTAGACCTC 2370
Qy 2303 AAGCGGAAATTCACGGGGGAGCTCATTAATCTGACTTGGACAGCTCTGGGATGAT 2361
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Qy 2362 TATGACATGGAACGCTCACAAGTATATCATTCGAAATAGTACAAATTTCTGATCTC 2421
Db 2428 CTGATTAAGGAGAGAGCTGAGAGCTACATTAAGAAATAGTAAACATTTCTCGACCTC 2487
Qy 2422 AGAGCAAGTTCAATGAATCTCTCAAGTATACAGTACGCTGCTCATCCCAAGAGAGCC 2481
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Qy 2483 AACTGTGAGAGATCTTTTGTGTTTAAACAGAAACATTAATCTTGAATTAAGAGAGAT 2541
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Db 2608 TTCTATATTGCAATTCACCAATTCATGAGCAATGTCACTCAGAGGTTTCAACATTT 2667
Qy 2602 GCACAGATCTTTGTTTATCTCTCCACAGACTCC 2636
Db 2668 GCACAAGCACTAATCTTATTTCTCCACAGGAAAC 2702

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RESULT 5
 US-08-469-667-8
 Sequence 8, Application US/08469667
 Patent No. 5733748

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang
 APPLICANT: Rosen, Craig
 TITLE OF INVENTION: Colon Specific Genes and Proteins
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Carella, Byrne, Balin, Gillfillan, Cecchi,
 ADDRESSEE: Stewart & Olstein
 STREET: 6 Becker Farm Road
 CITY: Roseland
 STATE: NJ
 COUNTRY: USA
 ZIP: 07068-1739
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/469, 667
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Ferraro, Gregory D.
 REGISTRATION NUMBER: 36,134
 REFERENCE/DOCKET NUMBER: 325800-435

```

TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-08-469-667-8

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Query Match 27.8%; Score 780.8; DB 1; Length 878;
 Best Local Similarity 98.9%; Pred. No. 6.4e-231;
 Matches 796; Conservative 0; Mismatches 8; Indels 1; Gaps 1;

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Qy 1992 TGTCTACTCAGGTATTTTCAACATTATGACACGAAATGTTAGATACAGTAAAGTGG 2051
Db 1 TGTCTACTCAGGTATTTTCAACATTATGACACGAAATGTTAGATACAGTAAAGTGG 60
Qy 2052 GCTCTGGAGAGATTAAACGACAGCAGAGAGATGATACCCAGAGAGTGGAGCACT 2111
Db 61 GGCTCGGAGAGATTAAACGACAGCAGAGAGATGATACCCAGAGAGTGGAGCACT 120
Qy 2112 GTACATACCTGCTGATGATGAGATGATGAATTAACATGAAATCCACCAAGCTGAAAT 2171
Db 121 GTACATACCTGCTGATGATGAGATGATGAATTAACATGAAATCCACCAAGCTGAAAT 180
Qy 2172 TATATAGATGATGTTCAACACAGCAAGTGTGTTACAGCAACATCTCTGGAGGCTC 2231
Db 181 TATATAGATGATGTTCAACACAGCAAGTGTGTTACAGCAACATCTCTGGAGGCTC 240
Qy 2232 ATTTGGCTTGTGATGTCCTCAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 2291
Db 241 ATTTGGCTTGTGATGTCCTCAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 300
Qy 2292 CACCGACCTGAAGGGGGAATTCACGGGGGAGCTCATTAATTCAGACTGGACGCTC 2351
Db 301 CACCGACCTGAAGGGGGAATTCACGGGGGAGCTCATTAATTCAGACTGGACGCTC 360
Qy 2352 TGGGATGATTAAGCAATGAGCAAGCTCACAAGTATATCATTCGAATTAAGTACAGTAT 2411
Db 361 TGGGATGATTAAGCAATGAGCAAGCTCACAAGTATATCATTCGAATTAAGTACAGTAT 420
Qy 2412 TCTTATCTCAGAGACAAAGTCAATGAATCTCTCAAGTGAATTAAGTACAGTATCTCC 2471
Db 421 TCTTATCTCAGAGACAAAGTCAATGAATCTCTCAAGTGAATTAAGTACAGTATCTCC 480
Qy 2472 AAAGGAGCAACCTGAGGAAGCTTTTGTGTTAAACGAAAAACATTACTTTGAAAA 2531
Db 481 AAAGGAGCAACCTGAGGAAGCTTTTGTGTTAAACGAAAAACATTACTTTGAAAA 540
Qy 2532 TGGCAGAGATCTTTTCATGCTATTACAGGCTGTGTAAGTGCATGGAATTCAGAAAT 2591
Db 541 TGGCAGAGATCTTTTCATGCTATTACAGGCTGTGTAAGTGCATGGAATTCAGAAAT 600
Qy 2592 ATCCAAATTCAGCAGAGATCTTTGTTATATCTCCACAGACTCCGCGAGACAGCACTAG 2651
Db 601 ATCCAAATTCAGCAGAGATCTTTGTTATATCTCCACAGACTCCGCGAGACAGCACTAG 660
Qy 2652 TCTGATGAACGCTGCTCTGTTG-CCTAATATTCATATCAACAGCAACATTCCTGGCA 2710
Db 661 TCTGATGAACGCTGCTCTGTTG-CCTAATATTCATATCAACAGCAACATTCCTGGCA 720
Qy 2711 TTCAATTTTAAATTAATGAGAGTGGATGAGAACTGAGTGCATTAAGCTTGG 2770
Db 721 TTCAATTTTAAATTAATGAGAGTGGATGAGAACTGAGTGCATTAAGCTTGG 780
Qy 2771 GCTGAATTTTGTGATTAATTAAT 2795

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DB 781 GGTGAATTTTGTGCGGTGAATAA 805

RESULT 6

US-09-224-110-8

Sequence 8, Application US/09224110

Patent No. 6337195

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang

APPLICANT: Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,

ADDRESSEE: Stewart & Olstein

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/224,110

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/469,667

FILING DATE: 06-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Ferraro, Gregory D.

REGISTRATION NUMBER: 36,134

REFERENCE/DOCKET NUMBER: 325800-435

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 878 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 2..685

US-09-224-110-8

Query Match

Best Local Similarity 96.98; Pred. No. 6.4e-231;

Matches 796; Conservative 0; Mismatches 8; Indels 1; Gaps 1;

DB 1992 TGTCTACTCAGAGTATTTACACACTTATGACACGATGTAGATACAGTGTAAAGTGGC 2051

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DB 121 GTACATACCTGGCTGATGGAATGAGAAATACATGGAATCCACCAAGCTGAAT 180

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DB 181 TAATAAGATGATGTTCAACACCAAGAGTGTGTTTACAGAGAACATCTCGGAGGCTC 240

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DB 241 ATTTGTGGCTTGTGATGTGCCAATGCTGCCATACCTGATCTCTTCCACCTGGGCAAT 300

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DB 781 GGTGAATTTTGTGCGGTGAATAA 805

RESULT 7

PCT-US95-07289-8

Sequence 8, Application PC/TUS9507289

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang

APPLICANT: Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,

ADDRESSEE: Stewart & Olstein

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/07289

FILING DATE: 06-JUN-1995

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Ferraro, Gregory D.

REGISTRATION NUMBER: 36,134

REFERENCE/DOCKET NUMBER: 325800-265

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

	Query Match	8.1%;	Score 228.2;	DB 4;	Length 576;
	Best Local Similarity	69.1%;	Pred. No. 1.9e-60;		
	Matches 385;	Conservative 0;	Mismatches 165;	Indels 9;	Gaps 5
QY	1882	CCAAATCTCAGGCCAGTGTCAACAGCCCTGATTTGATCAGTGAATGAAAAACAGTTACC	1941		
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Db	62	TTGGAACTTTTGGAAATAGTGTGAGGCGCTGATTTCTTTCAGAAATGATGGAATCTTACTCC	121		
QY	2002	AGGTAATTTACAACTTATGACACGAGTGTAGTATCAGTGTAAAAATGCGGCTCTGGGA	2061		
Db	122	AGTATTTTACAGCATATATACAGAAATATGGACATATAGCTTAAAGTTGGGCTCATGGA	181		
QY	2062	GGAGTTAACGCAAGCAGACGAGATGATACCCCAAGCAGAGTGGAGCACTGTACATACCT	2121		
Db	182	GGAGCAAAACACTGTCCAGGCTAAATATTTACGGCTTCCACATGTAATAGACGCCGTCATACCA	241		

	Query Match	7.9%	Score 221.4	DB 4	Length 595	
	Best Local Similarity	68.4%	Pred. No. 2,4e-58			
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Db	61	ATGAGAGTAC--TTAGACACCTCTGGAGAGATTTAGCGGAACACATCTCGGAGGTGCT	117			
OY	2234	TTTGCGCTTCGTGATGTCCCAATGCTCCATCACTGATCTCTTCCACCTGGCCAAATTA	2293			
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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 : Search time 12.0358 Seconds
(without alignments)
11417.439 Million cell updates/sec

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Perfect score: 5080
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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 seqs, 24425594 residues
Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsum62 -TRANS=human40.cdi
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Database :

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6: /cgn2_6/ptodata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	4753	93.6	914	4	US-09-193-562D-28
2	2462.5	48.5	903	4	US-09-193-562D-46
3	2328	45.8	905	4	US-09-193-562D-2
4	2324.5	44.5	902	4	US-09-193-562D-34
5	2258.5	44.5	1000	4	US-09-193-562D-30
6	2125	41.8	795	4	US-09-193-562D-11
7	2125	41.8	821	4	US-09-193-562D-12
8	1988	39.1	943	4	US-09-193-562D-32
9	1203	23.7	228	1	US-08-468-667-9
10	1203	23.7	228	4	US-09-224-110-9
11	1203	23.7	228	5	PCT-US95-07289-9
12	947.5	18.7	342	4	US-09-193-562D-13

13	408	8.0	203	4	US-09-193-562D-3	Sequence 3, Appl
14	143	2.8	2411	4	US-09-268-347-36	Sequence 36, Appl
15	141.5	2.8	1911	1	US-08-409-995-4	Sequence 4, Appl
16	141.5	2.8	1912	3	US-08-685-467-4	Sequence 4, Appl
17	141.5	2.8	2353	4	US-09-377-155-33	Sequence 33, Appl
18	141.5	2.8	2353	4	US-08-913-942-4	Sequence 4, Appl
19	141.5	2.8	2353	4	US-09-669-974-33	Sequence 33, Appl
20	141.5	2.8	2354	4	US-09-268-347-47	Sequence 47, Appl
21	140.5	2.8	1529	2	US-08-728-470-10	Sequence 10, Appl
22	140.5	2.8	1529	2	US-08-719-641-10	Sequence 10, Appl
23	138.5	2.7	1536	1	US-08-038-682-2	Sequence 2, Appl
24	138.5	2.7	1536	1	US-08-302-832-2	Sequence 2, Appl
25	138.5	2.7	1536	1	US-08-530-198-2	Sequence 2, Appl
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32	130	2.6	1848	4	US-08-296-791-6	Sequence 6, Appl
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36	121	2.4	710	4	US-09-171-461-16	Sequence 16, Appl
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38	121	2.4	1541	5	PCT-US95-10661A-3	Sequence 3, Appl
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40	118.5	2.3	599	3	US-09-045-632-28	Sequence 28, Appl
41	118.5	2.3	642	3	US-09-045-632-35	Sequence 35, Appl
42	118.5	2.3	818	3	US-09-045-632-25	Sequence 25, Appl
43	118.5	2.3	861	3	US-09-045-632-34	Sequence 34, Appl
44	118.5	2.3	918	3	US-09-045-632-21	Sequence 21, Appl
45	118.5	2.3	961	3	US-09-045-632-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-09-193-562D-28
Sequence 28, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 28
LENGTH: 914
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 0
Score: 4753.00
Percent Similarity: 100.00%
Best Local Similarity: 99.78%
Query Match: 93.56%
DB: 4
Gaps: 0

US-09-049-696-18 (1-2813) x US-09-193-562D-28 (1-914)

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Db 21 SerAsnSerLeuIleGlnLeuAsnAsnnglyTYrGluGlyIleValValAlaIleAsp 40
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Db 658 AlaThrIleAspAspGlyValIleThrIleThrIleThrIleThrIleThrIleThrIleThrIle 677
QY 2035 TACAGTGAAGAGTGGGCTCTGGAGAGAGTAAAGCAGCAGCAGAGAGTATACC 2094
   ...
Db 678 TyrSerValIleGlnValHisAlaGlnAlaArgAsnAsnThrAlaArgLeuSerLeuArgIle 697
QY 2095 CAGCAGAGTGAAGCAGCTGATACCTGCGCTGAGATGAGATGATGAATATACATGAT 2154
   ...
Db 698 ProGlnAsnIleGlnIleuThrIleProGlyIleThrIleGlnAsnGlyIleIleLeuAsn 717
QY 2155 CCACCAACATCGAATTAATTAAGATGATGTTCAACACAGCAAGTGTG---TGTTTCAGC 2211
   ...
Db 718 ProProArgProGluVal---LysAspAspLeuAlaIleGlnIleuLeuAspPheSer 736
QY 2212 AGAATATCCTCGGAGAGCTATTTGTGCTTGTGATGTCACCAATATGCTCCATACCTGAT 2271
   ...
Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProGlyIleAsnHisProSer 756
QY 2272 CTCCTCCACCTGGCCAAATCACCACTGAAGCGC-----GAATTTACGGGGGC 2322

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Db 757 ValLeuProProAsnIleThrAspLeuGlnAlaIlePheIleGlnAspHis----- 774
QY 2323 AGTCATTAATTCGTGACTGGACAGCTCCGGGATGATTAATGACCATGGAACAGCTCAC 2382
   ...
Db 775 -----IleGlnLeuSerThrPrpAlaProAlaAsnValLeuAspIleGlyIleAlaAsn 792
QY 2383 AAGTATATCATTCGAATTAATGATACAGTATTCGTATCTGACAGACAAAGTTCATGATCT 2442
   ...
Db 793 SerTyrIleIleThrArgIleSerIleSerPheLeuAspLeuGlnIleAspPheAsnAla 812
QY 2443 CTTCAGATGATATCTACTGCTCATCCCAAGGAAGCCAACTCTGAGAGAGCTTTTG 2502
   ...
Db 813 ThrLeuValAsnThrSerSerIleuIleuIleuIleuIleuIleuIleuIleuIleuIleu 832
QY 2503 TTTAAACCAAGAAACATTAATTTGAAATAGCAGACAGATCTTTCATGCTATTCAGCT 2562
   ...
Db 833 PheIleProGluProPheArgIleGlnAsnGlyThrAsnPheTyrIleAlaValGlnAla 852
QY 2563 GTTGATAGCTGATCGATCGAATTCAGAAATATCCAACTTGCACAGATATCTTGTATAT 2622
   ...
Db 853 IleAsnGlnIleAsnIleuThrSerGluValSerAsnIleAlaGlnAlaIleIlePheIle 872
QY 2623 CTCCTCAGACTCCGCCAGACACCTACTCT 2655
   ...
Db 873 Pro-----MetProGluAspSerValPro 880

RESULT 3
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-BCAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 3,37e-195 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best local Similarity: 53.33% Mismatches: 247
Query Match: 45.83% Indels: 16
Db: 4 Gaps: 11

US-09-049-696-18 (1-2813) x US-09-193-562D-2 (1-905)
QY 46 GTGTTCAATCTGATCTTCACCTTCTAGAAGGGCGCTGAGTAATTCATCTACCTGAC 105
   ...
Db 8 IleuLeuPheLeuThrIleHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACCAATGAGCTATGAGAGCATTTGCTGCAATGACACCCCAATGTGCCAAGATGAA 165
   ...
Db 27 IleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCATTCACAAATTAAGACATGCTGACCCAGAGATCTGTATTCGTTGAGAGCT 225
   ...
Db 47 LysLeuIleGlnAsnIleIleGlnMetValThrGlnIleAsnThrIleuPheHisAla 66
QY 226 ACAGAAAGCATTTATTCAAAAATGTGCATTTGATTCCTGAAACATGGAAGACA 285
   ...

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Db 67 ThrIysArgAlrValTyrPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGCGGACTATGTGAGACCAAACTTGACCTACAAAAATGCTATGTTGGTGGCT 345
Db 87 LysSerGluTyrPheIleProLysGlnLysSerTrpAspGlnIleValAla 106
QY 346 GAGTACTCTCTCCAGTAAATGATGACCTTACAGTACAGATGGAGATGGAGAG 405
Db 107 AsnProTyrLeuLysTyrGlnAspAspProTyrThrLeuGlnTyrGlnArgGlyGln 126
QY 406 AAGGGTAAAGATCCACCTCACTCTGTATTCATTCGACGAAAAAGTTAGTGAAT 465
Db 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuIleThrAsnAsnPheHisIleTyr 146
QY 466 GAGCCAAAGGATGGCATTTGTCCATGAGTGGCTCATCTACGAGGGAGATTTGAC 525
Db 147 GlySerArgGlyArgValPheValHisGlnTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAAATGATGAGAAATTCATTAATCC---AATGGAAGATACAGCAGTAA 582
Db 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGlnAlaThrArg 186
QY 583 TGTTCAGAGATTAATGATGATACAAATGATGAT---AAGAAGTGCAGGAGGAGCTGT 639
Db 187 CysSerThrHisIleThrGlyIleAsnValIlePheLysCysCysProGlyLysSerCys 206
QY 640 TACACCAAAAGATGCACATTCATTAAGTAAAGCAGCTCATGAAAAAGATGTGAGTT 659
Db 207 IleThrSerLeuLysArgArgAspSerGlnThrGlyLeuArgGlnAlaLysCysThrPhe 226
QY 700 GTTCTCAATCCCGCAGCAGGAGGCTTCTATGATGTTGTTGCACAACTGTGATTC 759
Db 227 LeuProLysLysSerGlnThrAlaLysGlnSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTGAATTTGTACAGAAACAAACACAAAGAAAGCTCAAAACAGCAAAATCA 819
Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGlnAlaProAsnLeuGlnAsnLys 266
QY 820 AATGCAATCTCGAGCAGCATGGGAAGTACCGCTGATTTCTAGAGACTTAAGAAAC 879
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCTATGACA-----ACACAGCCACCAAAATCCACCTTCATGCTGTCAGATTGCA 933
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
QY 934 CAAAGATTGTGTCTTAACTCTTGAACAATCTGGAAGCATGGCAGTGGTAAACCGCTTC 993
Db 307 GlnArgValValCysLeuValIleuAspLysSerGlySerMetSerAlaGlnAspArgLeu 326
QY 994 AATGCACTGAATCAAGCAGCCAGCTTTCCTGCTGCAAGACATGAGCTGGGGCTCTG 1053
Db 327 PheGlnMetAsnGlnAlaAlaGlnLeuTyrLeuIleGlnValIleGlnLysGlySerLeu 346
QY 1054 GTTGGAGTGTGATTTGATGACAGTGTGCCCATGACAAAGATGATCATCATGATTAAC 1113
Db 347 ValGlyMetValThrPheAspSerValAlaGlnIleGlnAsnHisLeuThrArgIleThr 366
QY 1114 AGTGGCAGTGCAGGAGCAGCACTCGCCAAAGATTAATCTGACAGCATTCAGAGAGAG 1173
Db 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlnLysThr 386
QY 1174 TCCATGTGCAGGGGCTTGATGGCATTT---ACTGTGATTAGGAAGAAATATCCAACT 1230
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
QY 1231 GATGATGTGAATTTGTGCTGAGCAGGATGGGAGAGACAACTTAATGATGGTCTTT 1290
Db 407 SerGlySerGluIleIleLeuLeuThrAspGlyGlnAspAsnGlnIleAsnSerCysPhe 426
QY 1291 AAGCAGGTCAAAAGATGGTGCATCATCCACAGCTGCTTGGGGCTTGCAGAGCT 1350
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlnLysProSerAlaAla 446
QY 1351 CAAGACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATGCTTCAGATCAA 1410
Db 447 LysGlnLeuGlnThrLysSerAsnMetThrGlyGlyTyrArgPheHisAlaAsnLysAsp 466
QY 1411 GTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAAGAAATGAGCTTC 1470
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgGlySerIle 484
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGATTAAGGATTAACCTCCAGAACCCAGTGGATG 1530
Db 485 ThrGlnAlaAlaIleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgVal 504
QY 1531 AATGGCAGATGATGCTGGACAGCAGCGGGGAGAAAGACATTTGCTTTACACCTGG 1590
Db 505 AsnGlyThrValProAlaAspSerThrValGlnAsnAspThrPhePheValValThrTrp 524
QY 1591 ACAGCCAGCCTCCCAAAATCTTCTGAGGATCCCATGGAGCAG-----AAGCAAGCT 1644
Db 525 ThrIleGlnLysProGlnIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544
QY 1645 GCGTTTGTATGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCAATTGCT 1701
Db 545 AspPheLysGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
QY 1702 AAGGTTGGACCTGGAAATACAGCTCG-----CAAGCAAGCTCAAAACCTTGAGC 1752
Db 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnHisAlaIleSerGlnMetLeuThr 584
QY 1753 CTGAGTGTACAGTCCCGCTCGTCCAAATGCTACCTGCTCAATTAACATGATTCACAA 1812
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
QY 1813 ACGAAGAGACACACAGCAAAATTCGCCAGCCTCTGATGTTATGCAAAATATTCGCCAA 1872
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrGlnIleValSerGln 624
QY 1873 GAGCGCTCCCAATGCTCAGGCGCAGGCTCACAGCCCTATGAAATGATGAGAA 1932
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleIleThrGlnLysPrgLynHis 644
QY 1933 ACAGTACCTTGGACATGATGATGATGAGCAGAGTGTGATGCTTAAGATGAGAGGT 1992
Db 645 GlnValThrLeuGlnLeuThrAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664
QY 1993 GTCTACTCAAGTATTTCACAACTTAAGACAGATGATGATGATGATGATGATGATGATG 2052
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlnLysGlnLysArgTyrSerLeuLysValHis 684
QY 2053 GCTCTGGAGAGATTAAAGCAGCAGCAGGAGAGATACCCAGCAGAGTGGAGCAGCG 2112
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704
QY 2113 TACATACCTGCGTGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2172
Db 705 TyrValProGlyTyrValGlnLysGlnLysIleIleLeuAsnProProArgProGlnVal 724
QY 2173 AATAGATGATGTTCAACACAGCAAGATGTGTTTCAAGACAAATCTGCGAGGCTCA 2232
Db 725 LysAspAspLeuAlaLysAlaLysIleGlnAspPheSerArgLeuThrSerGlyLysSer 744
QY 2233 TTTTGGCTTTCATGATC---CCAAATGCTCCCATGCTGATCTCTCCACCTGGCCAA 2289
Db 745 PheThrValSerGlyValaProProGlnLysAsnHisProSerValPheProProSerLys 764
QY 2290 ATCACCAGCTGAAGCGGAAATTCACGGGGCAGCTGATTAATCTGATTCAGACAGCT 2349
Db 765 IleThrAspLeuGlnAlaLysPheLys---GluAspTyrIleGlnLeuSerThrPheAla 783
QY 2350 CCTGGGAGATATTATGACCATGGAACAGCTCAACAAATATATCATTCGAATTAAGTCAAGT 2409
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803


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OY 1513 CAGAACAGCCAGTGGATGATGATGACAGTATGTCGGACAGACCGTCGGAAAGACACT 1572
    ::::::::::::::::::::
DB 498 ArgAlaIglAlaItrpIleasnIglYthrValProIleAspSerThrValGlyIasnAspThr 517
OY 1573 TGTGTTTATATACCTGGACAAAGCAGCTCCCAATCTCTCTCGGATCCCACTGCA 1632
    ::::::::::::::::::::
DB 518 PhePheValIleThrMetThrValIleYsIysProGluIleIleIleuIlnsProIylsIgl 537
OY 1633 CAGAG-----CAAGGTGCTTTGATGAGCAAA---ACACCAAAATGGCTTCCTC 1683
    ::::::::::::::::::::
DB 538 IysIysIYthrThrThrSerAspPheGlnAspAspIysLeuAsnIleAsrIleAlaGlyLeu 557
OY 1684 CAATATCCAGGACGATGCTAAGGTGGCACTGGAAATACAGTCTGCACAGCAAC---TCA 1740
    ::::::::::::::::::::
DB 558 GlnIleProGlyThrAlaIleThrGlyThrTrpThrIYSerYThrGlyThrIYsSer 577
OY 1741 CAACCTTGACCTGACCTGATCTACGTCGCCGTGCCAATGTCATCCCTGCTCCATTTACA 1800
    ::::::::::::::::::::
DB 578 GlnIleuIleThrMetThrValIleThrArgAlaIArgSerProThrMetIuProIleuLeu 597
OY 1801 GAGACTTCCAAAAGCAACAGACACCAACCAATCCCGAGCGCTGCTGATTTATGCA 1860
    ::::::::::::::::::::
DB 598 GlyTYrCYsTYrMetSerIlnSerThrAlaGlnTYrProSerArgMetIleValTYrAla 617
OY 1861 AATATTCGCCAAGAGAGCCTCCCAATTCACAGGCGCAGTGCACAGCCTGATTCATCA 1920
    ::::::::::::::::::::
DB 618 ArgValIserGlnGlyPheIleuProValIleuGlyAlaAsnValThrAlaIleuIleGluAla 637
OY 1921 GTGAATGCAAAAACAGTTACCTTGGAATCTAGATATGAGAGAGCTGTGATCTACT 1980
    ::::::::::::::::::::
DB 638 GlnIIsIglYlnsIglValIleThrIleuGlnIleuTrpAspAsnGlyAlaGlyAlaAspIleVal 657
OY 1981 AAGGATGAGCGGTGTACTACAGATATTTACAACTTAAGACCAACAAATGATGATCACT 2040
    ::::::::::::::::::::
DB 658 LysAsnAspGlyIleIYrThrArgTYrPheThrAspTYrlnsIglYasnIglYrIYsSer 677
OY 2041 GTAAAGTGCGGGCTCTGGAGAGATTAACGCAGCCAGCAGAGAGCTG-----ATA 2091
    ::::::::::::::::::::
DB 678 LeuIysValArg-----ValGlnAlaGlnArgAsnIYsThrArgIleuSerIleu 693
OY 2092 CCCAGCAGAGTGGAGACACTGATACATACCTGGCTGGATGAGAAATGATACAAATG 2151
    ::::::::::::::::::::
DB 694 ArgGlnIYsAsnIYsSerIleuTYrIleProGlyTYrValGlnIuAsnGlyIleValIleu 713
OY 2152 AATCCACAAGACGCTGAATTAATGAAGATGATGTCACACACAGCAAGATGCTGTTCAC 2211
    ::::::::::::::::::::
DB 714 AsnProProIArgProAspValGlnIuGlnAlaIleGlnAlaIleThrValGlnIuAspPheAsn 733
OY 2212 AGAACATCCTCGGAGAGCTCATTTGTGGCTGTGATGTCGCCAATGCTCCATACCTGAT 2271
    ::::::::::::::::::::
DB 734 ArgValIlnSerGlyIYsSerPheThrValIserGlyAlaPro-----ProAsp 749
OY 2272 -----CTCTCCACCTGGCCAAATCCAGCAGCTGAGGCGGAATTCAC 2316
    ::::::::::::::::::::
DB 750 GlyAspHisAlaIArgValIlePheProProSerIYsValIleAspLeuGlnIuAspPheIle 769
OY 2317 GGGGCGACGTCATTAATCTGACTGGACAGCTCCTGGGAGATGATTAATACCATGCAACA 2376
    ::::::::::::::::::::
DB 770 ---GlyAspTYrIleIlnsIleuThrTrpThrAlaProGlyIYsValIleuAspAsnGlyArg 788
OY 2377 GCTCAAGATATATCATTCGATTAAGTACAAATATTCGATCTGACAGACAAAGTTCAAT 2436
    ::::::::::::::::::::
DB 789 AlaHisArgTYrIleIleArgMetSerGlnHisProIleAspLeuGlnIuAspPheAsn 808
OY 2437 GAATCTCTTCAAGTAATCTACTGCTCTCATCCCAAGAGCAACCAATCTGAGAGATC 2496
    ::::::::::::::::::::
DB 809 AsnAlaIleThrLeuValAsnIleAsrSerIleuIleProIYsGlnIuAlaGlySerIYsGlnAla 828
OY 2497 TTTTGTGTTAAACCAAGAAACATTACTTTTGAATATGACACAGATCTTTCAATGCTAT 2556
    ::::::::::::::::::::
DB 829 PheIYsPheIYsProGlnIYrPheIYsIleAlaAsnGlyIleGlnIleuTYrIleAlaIle 848
OY 2557 CAGGCTGTGATAGGTGATCTGAATTCAGAAATTCAGAAATATTCACATTCAGAGATATCTTG 2616

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DB 849 GlnAlaAspAsnGlnIuAlaSerIleuThrSerGlnIuValSerAsnIleAla----- 864
OY 2617 TTTATTTCCCAACAGACTCCCGCAGAGACACTAGTCCTGAGGAAACGTCCTCTCTGT 2676
    ::::::::::::::::::::
DB 865 -----GlnAlaValIYsLeuThrSerIleuGlnIuAspSerIleSerIleuGly 880
OY 2677 CCTAATATTCAT---ATCAACAGACCACTTCCTGCATTCACATTTTA 2721
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DB 881 AspAspIleSerAlaIleSerMetThrIleTrpGlyLeuThrValIle 896

RESULT 5
US-09-193-562D-30
: Sequence 30, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Puff, Benedicht U.
: TITLE OF INVENTION: Nucleotide U. Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617, 0052
: CURRENT APPLICATION NUMBER: US/09/193,562D
: PRIOR FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 30
: LENGTH: 1000
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-193-562D-30

Alignment Scores:
Pred. No.: 4,24e-189 Length: 1000
Score: 2238.50 Matches: 466
Percent Similarity: 67.18% Conservative: 140
Best Local Similarity: 51.66% Mismatches: 253
Query Match: 44.46% Indels: 43
DB: 4 Gaps: 13

US-09-049-696-18 (1-2813) x US-09-193-562D-30 (1-1000)
OY 34 TTTAAGAGTCTGCTGTCATCTTGATCTTCACTTCAAGAGGCGCCTGAGTATTC 93
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DB 3 PheSerIleuYsValIleIleuPheIleuSerIleuLeuSerProValIleuYsSer 22
OY 94 CTCATTCACCTAACACAAATGCGTAAAGCATTTGCTTGCAATGCACCCCAATGTC 153
    ::::::::::::::::::::
DB 23 LeuValIleThrLeuAsnAsnAsnGlyTYrAspGlyIleValIleAlaIleAsnProSerVal 42
OY 154 CCAGAAATGAAACACTCTATTACAAATTAAGAGCATGTGACCAGCAGCATCTGTAT 213
    ::::::::::::::::::::
DB 43 ProGlnAspGlnIYsLeuIleGlnAsnIleYsGlnIleValIleGlnIleSerThrHis 62
OY 214 CTGTTGAAGCTACAGGAAGCATTTTATTCAAATATGTGCCATTTGATTCCTGAA 273
    ::::::::::::::::::::
DB 63 LeuPheHisAlaIleThrIYsGlnArgIleArgIleAsnValSerIleIleuIleProMet 82
OY 274 ACATGGAACACAAGGCTACTATGTGAGACCAAACTTGACACCTACAAAAATGCTGAT 333
    ::::::::::::::::::::
DB 83 ThrTYrIYsSerIYsSerIleuTYrIleuIleProIYsGlnIuThrTYrAspGlnIleAsp 102
OY 334 GTTTCGTTGCTGAGCTATCTCTCCAGGTATGATGAAACCTTACACGAGCAGATGGGC 393
    ::::::::::::::::::::
DB 103 ValIleValAlaAspLeuTYrIleuIYsTYrGlyAspAspProTYrThrIleuGlnTYrGly 122
OY 394 AACTGTGAGAGAGAGGTGAAGAGATCCACTCACTCCGATTCATTTGACAGAAAAAG 453
    ::::::::::::::::::::
DB 123 GlnCYsGlyAspIYsGlyIleTYrIleHisPheThrProAsnPheIleuIleuThrAsn 142
OY 454 TTATGTAATATGACACCAAGGTAGGCGCATTTGTCATGAGTGGCTCATGTACGATGG 513
    ::::::::::::::::::::
DB 143 LeuAlaIleThrTYrProArgIYsValIlePheValHisGlyIleTrpAlaHisIleuArgTrp 162

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QY 514 GGAGTATTTCAGAGTACATATGATGAGAAATTTACTTATCC---AATGGAAGATA 570
 Db 163 GllValpheaspGluTyrAsnValAspGlnProPheTyrIleSerArgAsnThrThr 182
 QY 571 CAACGAGTAAGATGTGACAGGTATTACTGTACAAATGTAGTAAGAGTGCAGGA 630
 Db 183 GlnAlaThrAlaGlyCysSerThrArgIleThrValTyrMetValIleAsnGlnCysLysGly 202
 QY 631 GGCAGCTGTTTACCAAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGA 690
 Db 203 AlaserCysIleAlaArgProPheArgArgAspSerGlnThrGlyLeuTyrGlnAlaLys 222
 QY 691 TGTGAGTTTGTTCACAAATCCCGCAGACGAGAGAGGCTTCTATATGTTTGCACAAAT 750
 Db 223 CysThrPheIleProLysArgSerGlnThrAlaLysGlnSerIleValPheMetGlnAsn 242
 QY 751 GTTATCTCTAGTTGTAATCTGTACAGAACAAACACAAACAAAGAGCTCCAAACAG 810
 Db 243 LeuAspSerValThrGluPheCysThrGluLysThrHisAsnLysGlnAlaProAsnLeu 262
 QY 811 CAAATCAAAAATGCAATCTCCGAGACACATGGAGAGTATCGTGAATTCGAGAGCTT 870
 Db 263 TyrAsnLysMetCysAsnHisArgSerThrTyrAspValIleMetSerSerGlnAspPhe 282
 QY 871 AAGAAAACCACTCTATAGACA---ACACAGCCACCAATCCACCTTCTCATTCCTCAG 927
 Db 283 GlnHisLeuSerProMetThrGluIleAsnLeuProArgProThrPheSerLeuLeuLys 302
 QY 928 ATTGACAAAGAAATGTGTGTATTGCTTGTACAAATCTGGAACAGGAGGACGCTGTAAC 987
 Db 303 SerLysGlnArgValValCysLeuValLeuAspLysSerIleSerMetAsnAlaGlnAsp 322
 QY 988 CGCCTCAATGACTGAATGATCAAGACGAGCCACTTTCCTGTCGACAGACTGTGAGCTGGG 1047
 Db 323 ArgLeuPheArgMetAsnGlnAlaAlaGlnIleuTyrLeuIleGlnIleGlnLysGly 342
 QY 1048 TCTCGGTGTGGAGTGTGATGATTTGACAGAGTCTGCCATGTACAAAGTGAATCATACAG 1107
 Db 343 SerLeuValAlaLeuValThrPheAspSerPheAlaLysIleGlnSerLysLeuLys 362
 QY 1108 ATAAACAGTGGCAGTGCACAGGACACACACTGCCAAAAGATTACCTGACAGAGCTTCAGA 1167
 Db 363 IleIleAspAspAsnThrTyrGlnLysIleThrAlaAsnLeuProGlnGlnAlaAspGly 382
 QY 1168 GGAAGCTGCATTCGACGGGGCTTCGATCGGCATTACTGTAT---AGGAGAAATAT 1224
 Db 383 GlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleProGlnSerAsnGln 402
 QY 1225 CCAACTGATGATCTGAAATTTGTGCTGCTGACGATGGGAGAGACAACTATTAAGTGGG 1284
 Db 403 SerThrPheIleSerGluIleIleLeuLeuThrAspLysGlnAspTyrGlnIleSerLeu 422
 QY 1285 TGGTTAAACGAGGTCAAAACAAAGTGTGCCATATCCACACAGTGGTGGGGCCCTT 1344
 Db 423 CysPheGlyValValLysGlnSerGlyThrValIleHisThrIleAlaLeuGlyProSer 442
 QY 1345 GCGAGCTCAAGACTAGAGAGCTGTCCAAAATGACAGGA-----1383
 Db 443 AlaAspGlnIleuLeuGlnThrLeuSerAsnMetThrGlyLeuHisLysGlyHisCysTyr 462
 QY 1384 -----GTTTACAGACATATGCTTCA 1404
 Db 463 ThrGluSerSerTyrSerAlaGlyLysPheIlePheCysGlyHisArgPheTyrAlaHis 482
 QY 1405 GATCAAGTTTCAGAAACATGGCTCATTTGATGCTTTGGGGCCCTTCAAGGAATGGA 1464
 Db 483 LysAsnIle-----AsnGlyLeuIleAspAlaPheSerArgIleSerSerArgSerGly 500
 QY 1465 GGTGTCTTCAGGCTTCATTCACAGTGTGAGAGTAAGATTAACTCCAGAACACCCAG 1524
 Db 501 SerIleSerGlnGlnAlaLeuGlnLeuGlnSerLysThrLeuAsnIleProAlaLysLys 520
 QY 1525 TGGATGAATGGCAGTGTGATGCTGGACAGCACCGCTGGAAAGACACTTGTTCATTATC 1584
 Db 521 TrpIleAsnGlyThrValProValAspSerThrValArgAsnAspThrSerPheValVal 540
 QY 1585 ACCTGGCAACGACGCTCCCAAAATCTTCTGTGGATCCCATGTCAGACAGAG-----1638
 Db 541 ThrThrIleGlnLysProAlaIleIleLeuGlnAsnProLysGlyLysTyrThr 560
 QY 1639 -----CAAGTGGCTTTGTGTGACAAAACCAACCAAAATGGCTACCTCCAA 1686
 Db 561 ThrSerAspPheGlnGlyLys-----GluLeuAsnIleArgSerAlaArgLeuArg 577
 QY 1687 ATCCAGACATTTGTAAGTTGGCACTTGGAATATACAGTGTGAA-----GCAAGC 1737
 Db 578 IleProGlyIleAlaGlnThrGlyIleThrPheTyrSerValArgAsnAsnHisThrLys 597
 QY 1738 TCACAACTTGACCTGACTGTACGTCCCGCTGCACATGCTACCTGCTCCAAAT 1797
 Db 598 SerGlnLeuLeuThrValThrMetThrThrArgAlaArgSerProThrThrLeuProVal 617
 QY 1798 ACAGTGACTTCCAAAACGAGACACAGGACACCAAAATTCGCCAGCCCTGTGAGTTAT 1857
 Db 618 IleAlaThrAlaHisSerMetGlnAsnThrAlaHisTyrProSerProValIleValTyr 637
 QY 1858 GCAAAATTTGCCAAGAGGCTCCCAATTCAGGCTCAGGCTCACAGCCCTGATTGAA 1917
 Db 638 AlaCysValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleGln 657
 QY 1918 TCAGTGAATGGAAGAAACAGTTACTTGGAACTACTGTATATGACAGAGTGTGATGCT 1977
 Db 658 AsnGlnGlnIleHisGlnValThrLeuGlnLeuCysAspAsnIleAlaGlyAlaAspSer 677
 QY 1978 ACTAAGATGACGCTGTCTACTCAGGTATTTACAACTTATACAGCAATGTGTAATAC 2037
 Db 678 ValLysAsnAspGlyIleTyrSerArgTyrPheThrAspTyrHisGlnLysGlnAlaGly 697
 QY 2038 AGTGTAAAGTGGCGGCTCTGGAGAGATTAACGACCCACAGCAGAGTATACCCAG 2097
 Db 698 SerLeuLysValLeuThrGlnAlaArgLysAsnThrAla-----ArgLeuSerGlnGln 715
 QY 2098 CACAGTGGACACTGTACATACTGCTGGATGATGACAAATGATCAATGATGATGCA 2157
 Db 716 GlnAsnLysAlaLeuTyrValProArgTyrAlaGlnAsnLysIleLeuAsnPro 735
 QY 2158 CCAAGACTGGAATTAATAAGATGTTCACACACAGCAGTGT---TGTTCACACAGA 2214
 Db 736 SerLysProGlnValThr---AspAspValGlnGlyAlaGlnThrAspAspPheSerArg 754
 QY 2215 ACACTCTCGGAGGCTCATTTGTGCTTGTATGTC---CCAATGCTCCATACCTGAT 2271
 Db 755 LeuThrSerGlyGlySerPheThrValSerGlyValProProAsnGlnLysAsnHisSerGln 774
 QY 2272 CTTCTCCACCTGGCCAAATTCACCGACCTGGAAGCGGAATTCACGGGGGAGTGTCAAT 2331
 Db 775 ValPheSerProGlyLysIleValAspLeuGlnAlaLysPheGlnLysPheHis---Ile 793
 QY 2332 AATCTGACTTGGACAGCTCTCGGGATGATTATGACCATGGAACAGCTCACAGTATATC 2391
 Db 794 GlnLeuSerThrPheThrAlaProGlyLysValIleuAspLysGlyArgAlaGlnSerTyrIle 813
 QY 2392 ATTGCAATTAAGTAAAGTATTCTTGATCTCAGAGACAACTGAATGAATCTTCAAGTG 2451
 Db 814 IleArgIleSerLysHisPheLeuAspLeuGlnGlnAspPheAspLysAlaIleLeuIle 833
 QY 2452 AATACTACGCTGTCTATCCCAAGAGACCAACTGAGAGAGTCTTTTGTGTTAAACA 2511
 Db 834 AsnThrSerGlyLeuIleProLysGlnProGlySerValGlnSerPheGlnLeuPhePro 853
 QY 2512 GAAACATTACTTTTGAAGATGGACAGATCTTTTCATGATGATTCATGAGCTGTGTAAG 2571
 Db 854 GluProSerLysIleGlnAsnGlnGlyThrThrPheTyrIleAlaIleGlnAlaIleHisGln 873
 QY 2572 GTGATCTGAATTCAGAAATATCAACATTTGACAGGATATCTTGTGTTATCTCCACAG 2631
 Db 2631

Db 874 AlaasnaValThrSerGluValSerAsnIleAlaGlnIleThrAsnDheileProProGln 893
 QY 2632 ACTCCG 2637
 Db 894 GluPro 895
 RESULT 6
 US-09-193-562D-11
 ; Sequence 11, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedicht U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT APPLICATION NUMBER: US/09/193,562D
 ; PRIOR FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065,922
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 11
 ; LENGTH: 795
 ; TYPE: PRT
 ; ORGANISM: Unknown
 ; FEATURE:
 ; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
 US-09-193-562D-11
 Alignment Scores:
 Pred. No.: 1.78e-177 Length: 795
 Score: 2125.00 Matches: 425
 Percent Similarity: 69.62% Conservative: 125
 Best Local Similarity: 53.80% Mismatches: 224
 Query Match: 41.83% Indels: 16
 Gaps: 11
 Db: 4
 US-09-049-696-18 (1-2813) x US-09-193-562D-11 (1-795)
 QY 46 GTGTCATCTGATGTCCTACCTCTAGAAAGGGCCCTGAGTAATTCACATTCACGTCG 105
 Db 8 IleuPheleuThrLeuHisleuLeuProGly--MetLysSerSerMetValAsnLeu 26
 QY 106 AACACAAATGGCTATGAGGACATGTCGTTGCAATGACCCCAATGTCGAGAGATGAA 165
 Db 27 IleasnaSngLYtrAspLYleValIleAlaIleAsnProSerValProGluAspGlu 46
 QY 166 ACACATCATCAACAATAAGACATGTCGACCCAGGACATCTCTGTATCTGTTGAAGCT 225
 Db 47 LysIleuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrlLeuPheHisAla 66
 QY 226 ACAGGAAGCGATTTTATTTCAAAATGTGGCATTTTGATTCCTGCAACATGAGAGAA 285
 Db 67 ThrLysArgValArgValThrPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
 QY 286 AAGGCTGACTATGTCGAGCAAAACTGACACTGACCAAAATGCTGATGTCGTCGTCGCT 345
 Db 87 LysSerGluTrpPheIleProLysGlnGluSerTyrlAspGlnAlaAspValIleValAla 106
 QY 346 GAGCTACTCTCCACAGGATATGATGAACCTTACACTGACGACAGATGGGCACTGGAGAG 405
 Db 107 AsnProTyrlLeuLysTyrlLysAspProTyrlThrLeuGlnTyrlGlyCysGlyGlu 126
 QY 406 AAGGTTGAAGAGATCCTCCTCATCTGATTTTCATTTGCGAGAAAAAGTTAGCTGAATAT 465
 Db 127 LysGlyLysTyrlIleHisPheThrProAsnPheLeuThrAsnAsnDheHisIleTyrl 146
 QY 466 GACCAACAAGTAGGAGCATTTGTCATGATGGGCTCATCTAGATGGAGAGATTTGAC 525
 Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpIlePheAsp 166
 QY 526 GAGTACAAATATGATGAGAAATTCATTAATCC--AATGGAAGAAATTAACAGCACTAGA 582
 Db 167 GluTyrlAsnValAspGlnProPheTyrlIleSerArgLysAsnThrIleGluAlaThrArg 186

QY 583 TGTTCAGACAGTATCTAGTACAAATGTAGTA---AGAAGTGTCCGACGACAGCTGT 639
 Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyLysCys 206
 QY 640 TACCCAAAAAGATGCACATTCATTAAGTAAGACACTGTATGAAAAAGATGTGAGTT 699
 Db 207 IleThrSerLeuSngArgValArgAspSerGlnThrGlyLeuTyrlGluAlaLysCysThrPhe 226
 QY 700 GTTCTCCAAATCCCGCCAGACGGAAGGCTTGTATATGTTTGCACAAATGTGATTC 759
 Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
 QY 760 ATAGTGAATTCGTACAGACAAACCAACAAAGAAAGCTCCAAACGAAATGCA 819
 Db 247 ValThrGluPheCysThrGluTyrlHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
 QY 820 AATGCAATCTCCGACGACATGGAAGTATCCGATTCGATGAGCACTTTAAGAAAC 879
 Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
 QY 880 ACTCTATAGACA-----ACACAGCCCAATCCCACTTGTCAATTCGTGCAGATTGCA 933
 Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
 QY 934 CAAGAATGTGTGTAGTCTGACAAATGTCGGAAGATGGCGACTGTAAACGCCCTC 993
 Db 307 GlnArgValValCysLeuValIleuAspLysSerGlySerMetSerValGluAspArgLeu 326
 QY 994 AATGCAATCAACAGACGACGCTTCTCTGTCGACAGATTCAGCTGGGCTCTG 1053
 Db 327 PheGlnMetAsnGlnAlaIleGluLeuTyrlLeuIleGlnValIleGluLysGlySerLeu 346
 QY 1054 GTTGGATGTGTACATTTGACAGCTGCTGCCATGTACAAAGTGAACCTCATACAGATTAAC 1113
 Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
 QY 1114 AGTGCAGTACAGGACGACACATCCGCCAAAGATTCATCGACGACTTCAGAGAGGAG 1173
 Db 367 AspAspAsnValTyrlGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyTyrlThr 386
 QY 1174 TCCATCTGCAGCGGCTTCGATCGGCATTT--ACTGTATTAGGAAGAAATATCCACT 1230
 Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
 QY 1231 GATGATCTGAATTTGCTGCTGACGATGGGGAAGACACTTAAGTGGGCTCTT 1290
 Db 407 SerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
 QY 1291 AAGGAGTCAAAAGAGTGGTCCATCATCCACACAGCTGGGCTGGGCGCTCGACGCT 1350
 Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
 QY 1351 CAAGAAGTAGAGAGCTGTCCAAATGACAGAGGTTTACAGACATATCTTCAGATCAA 1410
 Db 447 LysGluLeuGlnThrLysSerAsnMetThrGlyTyrlArgPhePheHisAsnLysAsp 466
 QY 1411 GTTCAGAACATGGCTCATGATGCTTTTGGGCGCTTTCATPCAGAAATGAGACTGTC 1470
 Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
 QY 1471 TCTCAGCGCTCATCAGCTGAGAGTGAAGGATTAACCTCCAGAACGCGCAGTGAG 1530
 Db 485 ThrGlnGlnAlaIleIleGlnGlnSerLysAlaLeuLysIleThrGlyArgGlyAspVal 504
 QY 1531 AATGGCAGCATGTGTGAGACAGACCGTGGGAAGGACACTTTGTTCTTATCCACTGG 1590
 Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524
 QY 1591 ACACGCGACCTCCCAAAATCTTCTGCGGATCCCACTGACAGAC-----AAGCAAGGT 1644
 Db 525 ThrIleGlnLysProGlnIleValLeuGlnAspProLysGlyLysLysTyrlLysThrSer 544

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OY 1645 GGCTTGTAGTGGACAAA--AACACCAAAATGGCCTTACCTCCAAATCCAGCAGCTTGT 1701
    ||| ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 545 AsphelysluAspLysLeuAsnIleArgSerAlaArgLeuInIleProGlyIleAla 564
OY 1702 AAGGTGGCAGCTGGAAATTCAGCTCG-----CAAGCAAGCTCCAAACCTTGACC 1752
    ||| ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 565 GluThrGlyThrPthrPthrThrSerLeuAsnAsnHisIleSerSerGlnMetLeuThr 584
OY 1753 CTGACGTGACGTCCCGGTGGTGGTACCTGCTGCTCAATTCAGTCACTTCCAA 1812
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 585 ValThrValThrThrAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
OY 1813 ACGAACAAGACACACCAAAATTCGCCAGCCCTGTGCTAGTTATGCAATATCCGCA 1872
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 605 MetSerGlnHisThrAlaHisIleTyProSerProMetIleValTyArgIleGlnValSerGln 624
OY 1873 GGAACCTCCCAATTCAGACGGCCAGTCCACAGCCCTGATGATGATGATGATGATG 1932
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 625 GlyPheLeuProValIleGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644
OY 1933 ACACTTACCTTGGAACTACTGATGATGATGATGATGATGATGATGATGATGATG 1992
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 645 GluValThrLeuGluIleuThrPAspAsnGlyAlaGlyArgAspThrValIleAsnAspGly 664
OY 1993 GTCTACTCAGAGTATTCACAACTTATGACACGATGATGATGATGATGATGATGATG 2052
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 665 IleTySerIleArgPthrPthrPthrPthrPthrPthrPthrPthrPthrPthrPth 684
OY 2053 GCTCTGGAGAGGATTAACGACGACGACGAGAGTGTATACCCGACAGTGGAGACCTG 2112
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnGlyValLeu 704
OY 2113 TACATACCTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATG 2172
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 705 TyrValProGlyTyValGluAsnGlyIleGluIleLeuAsnProProArgProGluVal 724
OY 2173 AATAAGATGATGTTCAACACAGCAAGCAAGTGTGTTACACCAACATCTCGGAGGCTCA 2232
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 725 LysAspAspLeuAlaIleAlaIleAlaIleGluAspPheSerArgLeuThrSerGlyGlySer 744
OY 2233 TTTGTGCTTCGATGTC--CCAAATGCTCCATACCTGATCTCTTCCACCTGGCCAA 2289
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 745 PheThrValSerGlyAlaProProProGlyAsnHisProSerValPheProProSerLys 764
OY 2290 ATCACCAGACCTGAAGCGGAAATTCACGGGGCAGCTCATTAATCTACTTGACAGCT 2349
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 765 IleThrAspLeuGluAlaIleLysPheLys--GluAspTyrlIleGlnLeuSerThrPthra 783
OY 2350 CCTGGGATGATTATGACCATGGAACAGCT 2379
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

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RESULT 7
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

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Alignment Scores:
Pred. No.: 1,81e-177 Length: 821
Score: 2125.00 Matches: 425
Percent Similarity: 69.62% Conservative: 125
Best Local Similarity: 53.80% Mismatches: 224
Query Match: 41.83% Indels: 16
DB: 4 Gaps: 11

US-09-049-696-18 (1-2813) x US-09-193-562D-12 (1-821)
OY 46 GTTTCATCTGTGATTTCTTCCACCTTCTAGAAAGGCGCTGAGTAATTCATCTCATTCAGCTG 105
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 8 IleLeuPheLeuThrLeuHisIleuLeuProGly--MetLysSerSerMetValAsnLeu 26
OY 106 AACACAAATGCGTATGAAAGCGATTCGCTGCAATGCAAGCCCAACGAGTGAAGATGAA 165
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 27 IleAsnAsnGlyTyTrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
OY 166 ACACATATTCACCAATTAAGACATGATGATGATGATGATGATGATGATGATGATGATG 225
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrlLeuPheHisAla 66
OY 226 ACAGAAAGCGATTTTATTCAAAATGTTGCCATTTGATTCCTGAACATGAAAGCA 285
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 67 ThrLysArgGlyValTyrlPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
OY 286 AAGCGTCACTGATGACACCAAACTTGAACCTTACCAAAATGCTGATGCTGTGCTGCT 345
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 87 LysSerGluTyrlPheIleProLysGlnGluSerTyrlAspGlnAlaAspValIleValAla 106
OY 346 GAGCTACTCTCCAGTAATGATGAACCCCTACCTGACAGATGAGGCAACTGTGAGAG 405
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 107 AsnProTyrlLeuLysTyrlGlyAspAspProTyrlThrLeuGlnGlyTyrlArgGlyGlyGlu 126
OY 406 AAGGTGAAGAGATTCACACCTCCATCCGATTCATTCAGAGAAAGATTAAGCTGATAT 465
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 127 LysGlyLysTyrlIleHisPheThrProAsnPheLeuThrAsnHisIleTyrl 146
OY 466 GGAACCAAGAGTGGGCTGTCATGAGTGGGCTCATCTACAGATGGGAGTATTGAC 525
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
OY 526 GAGTCAATATGATGCAAAATCTACTTACC--AATGGAAGATTAACAGCAAGTAA 582
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 167 GluTyrlAsnValAspGlnProPheTyrlIleSerArgLysAsnThrIleGluAlaThrArg 186
OY 583 TGTTCACAGGATTTACTGTGATCAATGATGTA--AAGAAGTGTGAGGAGGACAGCTGT 639
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyLysCys 206
OY 640 TACACAAAGAGATTCATTCATTAAGTAAAGACAGACTGTATGAAAAGAGATGAGTTT 699
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyrlGluAlaLysCysThrPhe 226
OY 700 GTTCTCCAAATCCCGCAGACGAGAGAGGCTTCTTAATGTTTGGCAACATGCTGATCTT 759
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
OY 760 ATAGTTGAATTCGTATACAGCAAAACCCACAAAGAGCTGTCCAAACAAATGCA 819
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnHisLys 266
OY 820 AAATGCAATTCGCAAGACACATGGAAGTATCCGATGATCTGAGGAGCTTAAGAAAC 879
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
OY 880 ACTGCTATGACA-----ACAGACCAACCAATCCACCTTCTGATTCGTGCAATGGA 933
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 287 SerProMetThrGluMetAsnProThrHisProThrPheSerLeuLeuLysSerLys 306
OY 934 CAAGAATGTGTGTGTAGTCTTGGACAAATCTGAGACATGCGGAGCTGGTAACCGGCTC 993
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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Db 307 GlnArgValValcysLeuValleuasPlysSerGlySerMetSerAlaGluAspArgLeu 326
OY 994 AATGAGTGAATCAGACGGCCAGCTTTCCTGCTGAGACAGTGGCGGGTCTCTGG 1053
Db 327 PheIleMetCAsnGlnAlaAlaGluLeuTyrLeuIleGlnValIleGlnLysGlySerLeu 346
OY 1054 GTTGGAGTGGTGAATTTGACAGTGTGCTCCATGATACAAAGTAACTCAATACAGATTAAC 1113
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisSleuThrArgIleThr 366
OY 1114 AGTGGCAGTACAGGACACATCGCCAAAAGATTACCTGACAGAGCTTGACAGAGGAGC 1173
Db 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyTyrThr 386
OY 1174 TCCATGTGACGGGGCTGATGGGCAATT---ACGTGTGATTAGGAAGAATATCCACT 1230
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406
OY 1231 GATGATCTGAAATTTGCTGCTGACGAGATGGGGAAGACAACTATATGAGGTGCTTT 1290
Db 407 SerGlySerCuiIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
OY 1291 AACGAGTCAACAAAGTGTGCCATATCCACACAGTGTGGGGCCCTGACAGT 1350
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
OY 1351 CAAAGACTGAGGAGGTGCTCAAAATGACAGGAGCTTTACAGCATATGCTTACAGATCAA 1410
Db 447 LysGlnLeuGluThrLysSerAsnMetThrGlyTyrArgPhePheAlaAsnLysAsp 466
OY 1411 GTTCAGAACAAATGCCCTATGATGCTTTGGGGCCCTTATCAGAGAAATGAGAGCTGC 1470
Db 467 Ile-----ThrLysLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
OY 1471 TTCACGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCAGTGAGATG 1530
Db 485 ThrGlnGlnAlaIleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgValArgVal 504
OY 1531 AATGGCAGAGTGTGAGGACAGCAGCGGGGAAGAGCACTTGTCTTATCACCTGG 1590
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTyr 524
OY 1591 ACAACGACGCTCCCAAAATCTTCTGAGATCCAGTGGACAG-----AAGCAAGT 1644
Db 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysLysLysTyrLysThrSer 544
OY 1645 GCGTTTGAGTGGACAAA---AACACCAAAATGGCTACCTCCAATCCAGGCAATGCT 1701
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuIleIleProGlyIleAla 564
OY 1702 AAGGTGGCACTGGAATATGACTCG-----CAAGCAAGCTCACAAACCTTGACC 1752
Db 565 GluThrGlyThrTyrThrTyrSerLeuAsnAsnHisAlaSerGlnMetLeuThr 584
OY 1753 CTGACTGTACGCTCCGCTGCAATGCAATGCACTGCTCCATTTACAGACTTCCAAA 1812
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
OY 1813 ACGAACAGGACACACGAAATTCGCCAGCCCTGCTGATGTAATGCAAAATATTCGCCAA 1872
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624
OY 1873 GAGGCTCCCAATTTCTCAGGCGCATGTCACAGCCCTGATGTAATCAGATGGAATA 1932
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644
OY 1933 ACAGTTACCTTGGACTGATGTAATGAGCAGAGTGTCTGATGCTACTAGATGAGTACG 1992
Db 645 GluValThrLeuLysLeuThrAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664
OY 1993 GTCTACTCAAGTATTTACAACTTATGACAGCAATGATGATACAGTGAAGTGGCG 2052
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyTyrGlySerLeuLysValHis 684

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OY 2053 GCTCTGGGAGGAGTTAACGACGACGAGAGTATACCCAGAGAGTGGAGCACTG 2112
Db 685 AlAGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704
OY 2113 TACATACCTGGCTGATGTAATGTAATGAAATACAAATGAAATCCACCAAGACTGAAAT 2172
Db 705 TyrValProGlyTyrValGlnAsnGlyLysIleIleLeuAsnProProArgProGluVal 724
OY 2173 AATAGAGTATGTTACACAAAGCAAGTGTGTTTACAGCAAAATCTTGGAGGCTCA 2232
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744
OY 2233 TTTGTGGCTCTGATGTC---CCAAATGCTCCCATACCTGATGCTTCCACCTGGCGCA 2289
Db 745 PheThrValSerGlyAlaProProGlyAsnHisProSerValIlePheProSerLys 764
OY 2290 ATCAGCAGCTGAAAGCGGAAATTCACGGGCGAGTCTCATTAATCTGACTTGACAGCT 2349
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTyrThrAla 783
OY 2350 CTGGGGGATGATTATGACATGGAACAGCT 2379
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

RESULT 8
US-09-193-562D-32
; Sequence 32, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR APPLICATION NUMBER: 1998-11-17
; PRIOR FILING DATE: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 32
; LENGTH: 943
; TYPE: PR1
; ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:
Pred. No.: 1,86e-165 Length: 943
Score: 1988.00 Matches: 416
Percent Similarity: 63.04 Conservative: 164
Best Local Similarity: 45.228 Mismatches: 284
Query Match: 39.138 Indels: 56
DB: 4 Gaps: 21

US-09-049-696-18 (1-2813) x US-09-193-562D-32 (1-943)
OY 4 ATACAGGAGGAGTACGCAATGAGGGCCATTAAAGTCTCTGTCATCTGATTTCT 63
Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeu 19
OY 64 CACCTTCTAGAAAGGCGCCCTGACTAATTCATC-----ATTACAGCTG 105
Db 20 -----ValAlaLeuSerSerGlnLeuProPheLeuGluValGlnLeu 35
OY 106 AACACAATGCGTATGAGCAATTCGCTGTCATGACACCCCAATGTCACAGATGAA 165
Db 36 GluAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55
OY 166 ACATCATTCACAACAATTAAGGACATGGAGCAGCAGCATCTGTATGCTTGAAGCT 225
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheThrLeuPheAsnAla 75
OY 226 ACAGGAAGCGATTTATTTCAAAATGTTGCCATTTTGTATTCCTGAACATGAGAC 285

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Db 76 ThlysrArgrValPhePheArgrAsnIleLeuIleProAlaThrTPrlySala 95
QY 286 AAGGCTGACTATGTAGACACCAAAATGTAGACCTTACAAAAATGCTGATGTTGCTTGT 345
Db 96 Asn---AsnAsnSerIleIleYsGlnIleSerTyrGluYsAlaAsnValIleValThr 114
QY 346 GAGCTTACTCTCTCCAGGTAATGATGAACCTTACACTGACAGATGGCAACTGTGGAGAG 405
Db 115 AspTrpTyrGluAlaHisGlyAspAspProTyrThrLeuIleIleTyrArgGlyCysGlyLys 134
QY 406 AAGGTAAGAAAGGATCCACCTCCACTGCTGATTTCTATGTCAGGAAAAAGTTA---GCTGAA 462
Db 135 GlnIleYsTyrIleHisSerPheThrProAsnPheLeuLeuAsnAspAsnIleThrAlaGly 154
QY 463 TATGACACACAAAGTAGGACATTTGTCCATGAGTGGGCTCATTCAGATGGGAGATATT 522
Db 155 TyrGlySerArgrGlyArgrValPheValHisGluThrPralHisLeuArgrGlyValPhe 174
QY 523 GACAGTACAAATATGATGAGAAATTTACTTATCC---AATGGAAGAATTCAGACAGTA 579
Db 175 AspTrpTyrAsnAsnAspLysProPheTyrIleAsnGlyIleAsnGlnIleLysValThr 194
QY 580 AGATGTCAGACGATATTACTGTAGTACAAATGTAGTAAAGATGTGACGAGGACGCTGT 639
Db 195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluYsGlyProCys 211
QY 640 TACACCAAAAGATGCACATTCATTAATTAAGTAACAGACTATGAAAAAGATGTGACTTT 699
Db 212 ProGlnIleAsnGlyIleIleSerLys-----LeuPheLysGluGlyCysThrPhe 228
QY 700 GTTCTCCAAATCCCGCCAGCAGAGAGGCTCTATATGTTTGTGACAAATGTGATGATCT 759
Db 229 IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer 248
QY 760 ATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATCAAA 819
Db 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnIleAlaProAsnLeuGlnAsnGln 268
QY 820 AAATGCAATGTCGAGACACATGGAGAGTCCGTGATTTGTGAGAGATTTTAAGAAAAAC 879
Db 269 MetCysSerLeuArgrSerAlaTrpAspValIleThrAspSerAlaAspPheHisHisSer 288
QY 880 ACTCCTAG-----ACAACACAGCCACCAAAATCCACCTTCTATGCTCAGATGGA 933
Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGlnAlaGly 308
QY 934 CAAGAATGTGTGTTAGTCTTGACAAATCTGGAAGACGAGGAGCTGTGAACGGCTC 993
Db 309 AspLysValIleCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328
QY 994 AATGCACATGAAACAGCAGCGCAGCTTTCTGCTGACAGACAGTGAAGCTGGGCTGCTGG 1053
Db 339 LeuGlnLeuGlnGlnAlaGluPheTyrLeuMetGlnIleValGlnIleHisThrPhe 348
QY 1054 GTTGGATGGTGATGATTTGATGAGCTGCTCCCATGTACAAAGTGAATGATCAAGATTAAC 1113
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Db 369 SerAsnAspAspArgLysLeuLeuValSerTyrLeuProThrThrValSerAlaLysThr 388
QY 1174 -----TCCATCTGACAGCGGCTTGATCCGCAATTTACTGATTAAGAG---AAATAT 1224
Db 389 AspIleSerIleCysSerIleCysSerLysGlyPheGluValValGluLysLeuAsnGly 408
QY 1225 CCAACTGATGATGATTAATTTGCTGCTGACGAGTGGGAGACAAACATTAAGTGGG 1284
Db 409 LysAlaIleTyrGlySerValMetIleLeuValThrSerGlyAspAspLysLeuLeuGlyAsn 428
QY 1285 TGCCTTAAACGAGCTCAAAACAGTGGTGCATATCCACACAGTGGCTTGGGCGCTCT 1344
Db 429 CysLeuProThrValLeuSerSerGlySerThrIleHisSerIleAlaLeuGlySerSer 448
QY 1345 GCAGCTCAAGACTAGAGGAGCTGTCCAAATGACAGAGGAGGTTTACAGACTATGCTTCA 1404
Db 449 AlaAlaProAsnLeuIleGlnIleLeuSerArgrLeuThrGlyIleYsPhePheValPro 468
QY 1405 GATCAAGTTTCAGAACCAATGGCCCTCATTTGATGCTTTTGGGCGCTTTCATCAGAAAAATGA 1464
Db 469 AspIleSerAsnSerAsnSerMetIleAspAlaPheSerArgrLysSerSerGlyThrGly 488
QY 1465 GCTGTCTTCAGCGCTTCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAACACCCAG 1524
Db 489 AspIlePheGlnGlnHisIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIle 508
QY 1525 TGGATGAATGGCAGAGGATCGTGGACAGACCGCTGGGAAAGGACACTTTGTTTATTC 1584
Db 509 GlnIleYsAsnThrValIleThrValAspAsnThrValGlyLysAsnAspIleMetPheLeuVal 528
QY 1585 ACCTGG---ACAACGACAGCTCCCAAAATCTCTGTGGATCCAGTGACAGAG--- 1638
Db 529 ThrTrpGlnAlaSerGlyProProGlnIleIleLeuPheAspProAspArgLysTyr 548
QY 1639 ---CAAGCTGCTTTGTAGTGACAAACAAACCAAAATGGCTTACTCCAAATCCAGCG 1695
Db 549 TyrThrAsnAsnPheThrThrAsnLeuThrPheArgrThrAlaSerLeuThrProGly 568
QY 1696 ATGCTTAAGGTGGACATTTGAAATACAGTCTG-----CAAGCAAGCTCAACAAAC 1746
Db 569 ThrAlaLysProGlnIleStrThrThrThrLeuAsnAsnThrHisHisSerLeuGlnAla 588
QY 1747 TTGACCTGACTGTACAGTCCCGCTGCTCCAAATGCTACCTGCTCCAAATTAAGAGACT 1806
Db 589 LeuLysValThrValThrSerArgrAlaSerAsnSerAlaValProProAlaThrValGln 608
QY 1807 TCCAAACGAAACAGAACACCAACCAAAATGCTCCAGCCCTGGAGTGTGAATATTT 1866
Db 609 AlaPheValGluArgrAspSerLeuHisPheProHisProValMetIleTyrAlaAsnVal 628
QY 1867 CGCCAGAGAGCTCCCAATTTCTCAGGCGCAGTCCACAGCCCTGATGTAATCAGTAAT 1926
Db 629 LysGlnIleYrPheTyrProIleIleAsnAlaThrValThrAlaThrValGluProGluThr 648
QY 1927 GGAATAACAGTTACTCTGGAATCTAGATATGAGCAGAGCTGTATGCTACTAGATAGAT 1986
Db 649 GlyAspProValThrIleAsnGlyLeuLeuAspAspValIleGlyAlaAspValIleLysAsn 668
QY 1987 GAGGCTGTACTACAGGATTTTCAACAATATGATACAGCAATGAGTATGACAGTATGATAA 2046
Db 669 AspLysIleTyrSerArgrTyrPhePheSerPheAlaAlaAsnGlnIleArgrTyrSerLeuLys 688
QY 2047 GTGGGGCTGTGGAGAGTTAACGACGACGACGAGAGATGATCCCAAGCAG----- 2100
Db 689 ValHis-----ValAsnHisSerProSerIleSerThrProAlaHisSerIle 704
QY 2101 -----AGTGACAGACCTGATACATACCTGCGCTGATGAGATGATGAATTAAGTGAAT 2154
Db 705 ProGlySerHisAlaMetTyrValProGlyTyrThrAlaAsnGlnIleGlnMetAsn 724
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Db 725 AlaProArgrLysSerValGlyArgrAsnGlnIleGlnIleGlnIleGlnIleGlnIle 743
QY 2215 ACATCTCTGGAGGAGCTATTTGTGGCTTGTGATGTTCCCAAAATGCTCCCAATCTGATGCTC 2274
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QY 2275 TTCCACACTGGCCAATATCACGACCTGAAGCGGAAATTCAGGGGGGAGCTCATTAAT 2334
Db 764 PheProProCysLysIleIleAspLeuIleAla---ValLysValGluGluIleuThr 782
QY 2335 CTGACTTGACAGCTCTCGGGAGATATATGACCATGGAACAGCTCCAAATATATATAT 2394
Db 783 LeuSerTrpThrAlaProGlyGluAspPheAspGlnIleGlnIleAlaThrSerTyrGluIle 802
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[illegible]

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      RESULT 9
      US-08-469-667-9
      : Sequence 9, Application US/08469667
      : Patent No. 5733748
      : GENERAL INFORMATION:
      : APPLICANT: Yu, Guo-Liang
      : APPLICANT: Rosen, Craig
      : TITLE OF INVENTION: Colon Specific Genes and Proteins
      : NUMBER OF SEQUENCES: 24
      : CORRESPONDENCE ADDRESS:
      : ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,
      : STREET: 6 Becker Farm Road
      : CITY: Roseland
      : STATE: NJ
      : COUNTRY: USA
      : ZIP: 07068-1739
      : COMPUTER READABLE FORM:
      : MEDIUM TYPE: Floppy disk
      : COMPUTER: IBM PC compatible
      : OPERATING SYSTEM: PC-DOS/MS-DOS
      : SOFTWARE: Patent Release #1.0, Version #1.30
      : CURRENT APPLICATION DATA:
      : APPLICATION NUMBER: US/08/469,667
      : FILING DATE: 06-JUN-1995
      : CLASSIFICATION: 536
      : ATTORNEY/AGENT INFORMATION:
      : NAME: Ferraro, Gregory D.
      : REGISTRATION NUMBER: 36,134
      : REFERENCE/DOCKET NUMBER: 325800-435
      : TELECOMMUNICATION INFORMATION:
      : TELEPHONE: 201-994-1700
      : TELEFAX: 201-994-1744
      : INFORMATION FOR SEQ ID NO: 9:
      : SEQUENCE CHARACTERISTICS:
      : LENGTH: 228 amino acids
      : TYPE: amino acid
      : TOPOLOGY: linear
      : MOLECULE TYPE: protein
      : US-08-469-667-9

Alignment Scores:
Pred. No.:          4e-97           Length:       228
Score:             1203.00         Matches:     228
Percent Similarity: 100.00%        Conservative: 0
Best local Similarity: 100.00%     Mismatches:  0
Query Match:       23.68%          Indels:      0
DB:                1              Gaps:         0

US-09-049-696-18 (1-2813) x US-08-469-667-9 (1-228)
OY   1993 GTCTACGCAAGGATTTCCACAAGTTCGTGCAGAGAATGGTAGTGATACAGTGTAAAGTGGCG 2052Z
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Db	1	ValTysSerArgIyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	2053	GCTGTGGAGAGAGTTAAACGACGACGAGAGAGTATACCCACAGAGTGGAGCACTG	2112
Db	21	AlaLeuLeu1GlyValAlaAsnAlaAlaAgaAgaValIleIleProGlnGlnSerCylValLeu	40
QY	2113	TACATACCTGGCGAGATTGGAATGATGTAATACATATGATTCACCAAGACCTGAATT	2172
Db	41	TyrIleProGlyIleThrIleGlnAsnAspGluIleGlnIleThrAsnProProArgProGluIle	60
QY	2173	AATTAAGATGATGTTCACAACAAGCAAGATGTGTTCAGCAGAAATCCTGGGAGCTCA	2232
Db	61	AsnLysAspAspValGlnHisLysGlnValLysPheSerArgThrSerSerCylLysIser	80
QY	2233	TTTGTGCTCTCTATGTGCCAAATAGCTCCATACCTGATCTCTCCACATCGGCAATTC	2292
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle	100
QY	2293	ACCGACCTGAAGCGGAAATTCACGGGGGACGTCTCATTAATCTACTTGGACAGCTCT	2352
Db	101	ThrAspLeuLysAlaGlnIleHisGlyLysIserLeuIleAsnLeuThrTrpThrAlaPro	120
QY	2353	GGGGATATATATGACCATGGAAACAGCTCACAAGTATATATTCGAAATGAATCAAGTAT	2412
Db	121	GlyAspAspIyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle	140
QY	2413	CTTATATCTGAGACACAAGTTCATGAATCTCTCAAGTGAATACACTAGCTCTCATCCA	2472
Db	141	LeuAspLeuArgAspLysPheAsnGlnIserLeuGlnValAsnThrThrAlaLeuIlePro	160
QY	2473	AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTACTTTGAAAT	2532
Db	161	LysGlnIuLaaSnSerGlnGlnValAlaPheLeuPheLysProGluAsnIleThrPheGlnAsn	180
QY	2533	GGCACAATCTTTTCAATGCTGATTCAGCGGTGATTAAGCTGATCTGAAATCACAATA	2592
Db	181	GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerCylIle	200
QY	2593	TCCAACTTGCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCAGACACTAGT	2652
Db	201	SerAsnIleAlaIArgValSerLeuPheIleProGlnIleThrProProGlnIleThrProSer	220
QY	2653	CTGTATGAACGTCGTCTCTCT	2676
Db	221	ProspGlnThrSerAlaProCys	228

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RESULT 10
US-09-224-110-9
Sequence 9, Application US/09224110
Patent No. 6337195
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
City: Roseland
STATE: NJ
COUNTRY: USA
Zip: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:

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Db 708 ThrValLysAspAlaThrAlaAsnAspAlaAspLysLysValAlaThrValLysAspVal 727
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QY 1450 TCATCAGGAAT-----GGAGCTGTCTCTCAGCGCTCCTCAGCTTCAGCTTGAGAGT 1497
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QY 1498 AAGGGTTTAACTC-----CAGAACAGCAGTGTGATGATGACAGTGTGATG 1548
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QY 1549 GACAGCAGCGTGGGAAAGAGACATTTGTTCTTATCAGCTGGACAGCAGCCTCCCAA 1608
Db 802 ThrLeuThrIleGlyLysAsnThr-----ProThrGlyGlyThrThrAlaThrProLys 819
QY 1609 ATC----- 1611
Db 820 ValAsnIleThrSerThrAlaAspGlyLeuAsnPheAlaLysGluThrAlaAspAlaSer 839
QY 1612 -----CTTCTCTGGATCCCACTGAGACAG 1635
Db 840 GlySerLysAsnValTyrlLeuLysGlyIleAlaThrThrLeuThrGluProSerAlaGly 859
QY 1636 AAGCAAGTGCGTTGTA-----GTGCAAAAACACCAAAATGGCCCTACCTCCAA 1686
Db 860 AlaLysSerSerHisValAspLeuAsnValAspAlaThrLysLysSerAsnAlaAlaSer 879
QY 1687 ATCCAGCAGCATTCCTGAAGTGGCAGCTTGAATACAGTCTGCAAGACAGTCACAAAAC 1746
Db 880 IleGluAspValLeuAlaGlyLys-----TyrAsnIleGluLysAsnGlyAsnAsn 896
QY 1747 TTGACCCCTACGTCACTGCGCCGTCGTCATGCTAC-----CTGCGCT 1791
Db 897 ValAspTyrValAlaThrTyrlAspThrValAlaAsnPheThrAspSerThrGlyThrThr 916
QY 1792 CCAATTACAGTCACTTCCAAAGCAAGACAGACAGCAAAATGCCAGCCCTCGTA 1851
Db 917 ThrValThrValThrGluLysAlaAspGlyLysGly----- 928
QY 1852 GTTATGCAAAATATTCGCCAGAGAGCTCCCAATTCAGAGGCCAGTGTCAAGCCCTG 1911
Db 929 -----AlaAspValLysIleGlyLys-----ThrSerVal 939
QY 1912 ATTGAATCGTGAATGGAAGAAACAGTTACC---TTGGAACCTACTGTGATATGAGCAGGT 1968
Db 940 IleLysAspHisAsnGlyLysLeuPheThrGlyLysAspLeuLysAspAlaAsnGly 959
QY 1969 GCTGATGCTACTAGAGATACGCT-----GTCACTCAAGAGTAT 2007
Db 960 AlaThrValSerGluAspSpolLysAspThrGlyThrGlyLeuValAlaThrLys--- 978
QY 2008 TTCACAACTTATGACAGCAATGATGATCACTGTAAAGTCGGGCTCTGGGA----- 2061
Db 979 ---ThrValIleAspAlaValAlaAsnLysSerGlyTyrPargValThrGlyGluGlyAlaThr 997
QY 2062 -----GGAGTTAACGCAAGCAGAGAGAGTATACCCACAGCAGACT 2103
Db 998 AlaGluThrGlyAlaThrAlaValAlaAsnAlaGlyAsnAlaGluThrValThrSerGlyThr 1017
QY 2104 GGAGCACTGTACATCTGCTGATGATGATGATGAAATCAATGGAATTCACACAA 2163
Db 1018 SerValAsnPheLysAsnGly-----AsnAlaThrThr 1028
QY 2164 CCTGAATTAATATAGAT-----GATGTT----- 2187

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Db 1029 AlaThrValSerLysAspAsnGlyAsnIleAsnValLysTyrAspValAlaValGlyAsp 1048
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QY 2224 GGAGCTCAATTTGTG-----GCTTCGATGTCCTCCAAATGCTCCATACCTGAT 2271
Db 1069 GlyGlyLysValSerValProAlaGlyAlaAsnSerValAsnAsn----- 1083
QY 2272 CTCTTCCACCTGGCCAAATACCGACCTGAAGCGGAAATTCACGCGGCGCTCAT 2331
Db 1084 -----AsnLysLysLeuValAlaAsnAlaGluGlyLeuAlaThrAlaLeuAsn 1098
QY 2332 AATCTGACTTGGACAGCTCTCGGGATGATATGACCAATGA 2373
Db 1099 AsnLeuSerThrAlaLysAlaAspLysTyrAlaAspGly 1112

RESULT 15
US-08-409-995-4
/ Sequence 4, Application US/08409995
/ Patent No. 5646259
/ GENERAL INFORMATION:
/ APPLICANT: Barenkamp, Stephen I.
/ APPLICANT: St. Geme III, Joseph W.
/ TITLE OF INVENTION: Haemophilus Adhesion Proteins
/ NUMBER OF SEQUENCES: 6
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: Flehr, Hohbach, Test, Albritton & Herbert
/ STREET: Four Embarcadero Center, Suite 3400
/ CITY: San Francisco
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94111-4187
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/409,995
/ FILING DATE: 24-MAR-1995
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Silva, Robin M.
/ REGISTRATION NUMBER: 38,304
/ REFERENCE/DOCKET NUMBER: A-61053/RET
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 781-1989
/ TELEFAX: (415) 398-3249
/ TELEX: 910 277299
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1912 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: double
/ TOPOLOGY: unknown
/ US-08-409-995-4

Alignment Scores:
Pred. No.: 0.00806 Length: 1912
Score: 141.50 Matches: 181
Percent Similarity: 31.95% Conservatve: 128
Best Local Similarity: 18.72% Mismatches: 371
Query Match: 2.79% Indels: 288
DB: 1 Gaps: 44

US-09-049-696-18 (1-2813) x US-08-409-995-4 (1-1912)
QY 274 ACATGGAAGACAAAGCTGACTATGTGAGACCAAACTTGAGACCTACAAAAATGCTGAT 333
Db 428 SerTyrLysAlaLysAlaGlu-----AlaAsp 436

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QY 334 GTTCTGGTGTGAGTCTACTCTCCAGTAATGATGAACCTACACTGAGCAGATGGC 393
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QY 394 AACCTGGAGAGAAAGGTGAAGAGATCCACTCTCTCTGATTTCATGACGAAAAAG 453
Db 451 LysAlaGlyGlu-----ThrsValThrPheLysAlaGlyLysAsn 463
QY 454 TTACTGAAATATGACCAACAGTAGGAGCATTTGTCATGAG----- 495
Db 464 Leu---LysValLysGlnAspGlyAlaAsnPheThrLysLeuGlnAspAlaLeuThr 482
QY 496 ---TGGGCTCATCAGCATGGGAGTATTGACAGTACATAATGATGAAATTCAC 552
Db 483 GlyLeuThrSerLethrLeuGlyGlyThrThrsAsnGlyLysAsnAspAlaLysThrVal 502
QY 553 TTATCC---AATGAAAGAAATACAGCAGTAAGATGTTACAGCATTTACTGGTCAAT 609
Db 503 TLeasnLysAspGlyLeuThrLethrProAlaGlyLysGlyThrGlyThrAsn 522
QY 610 GTAGTAAGAAGTGTGAGGAGCGAGCTGTACACCAAAAGATGCACATTCAATAAAGTA 669
Db 523 ThrIleSerValThrLysAspGlyIleLysAlaGlyAsnLysAlaIleThrAsnValAla 542
QY 670 ACAGGACTC---TATGAAAAAGATGTGAGTTGTTCTCCAAATCCCGCCAGCAGAG 723
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QY 724 AAGCTTCTAATGTTTGCACAAACATGTTGATCTATAGTTGAATTCGTGACGAACAA 783
Db 563 -----LeuAsnArgHisValGlnAspAlaGlyLysGlyLeuLeu----- 575
QY 784 AACCAACAAGAAAGAGCTCCAAACAGCAAAATCAAAAATGCATCTCCGAGACATGG 843
Db 576 AsnLeuAsnGlnLysAsnAlaAsnLysGln----- 585
QY 844 GAAGTGAATCCGTGATTCGAGGACTTTAAGAAAACACTCCTATGACACAGACCCACA 903
Db 586 -----ProLeuValThrAspSerThr 592
QY 904 AATCCACCTTCATTCGTGAGATGTTGCAAAAGATGTGTTAGTTCCTTGACAAA 963
Db 593 AlaAlaThrValGlyAspLeu-----ArgLysLeuGlyTrpValValSerThrLys 609
QY 964 TCTGGACGATGAGCGATGTAACCGCCCTCAATGATGATGATGACAGGAGCGCTTTC 1023
Db 610 AsnGly-----ThrLysGlnGlnSerAsnGlnValLysGlnAlaAspGlnVal--- 625
QY 1024 CTGCTGACAGACAGTTGAGCTGGGCTCCTGGGTTGGATGTTGACATGTGCTGCC 1083
Db 626 -----LeupheThrGlyAlaGlyAlaAlaThrValThrSerLysSer 639
QY 1084 CATCTNCAAGTGAACATCATTACAGATAACAGTGGC----- 1119
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QY 1120 ---AGTACAGGACACATCGCCAAAAGATTACCT----- 1152
Db 660 GlnLysAspGlyAspThrLethrLysLeuLysValAlaAsnGlnAsnThrAspAsnValLeu 679
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Db 697 ---LysThrGlyAlaThrAspAlaAspArg-----GlyLysValThr 709
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QY 1333 TTGGGGCCCTCTGCACTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAG 1392

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Db 750 -----GlnAspAsnProThrAspAsnGlyLysAspAsp-----AlaLeuLys 763
QY 1453 TCAGGAAT-----GGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500
Db 764 AlaGlyAspThrLeuThrPheLysAlaGlyLysAsnLeuLysValLysAspGlyLys 783
QY 1501 GGATTAACCTC-----CAGAACGCCAGTGAATGACAGTATCGAGTGGAC 1551
Db 784 AsnIleThrPheAspLeuAlaLysAsnLeuGlnValLysThrAlaLysValSerAspThr 803
QY 1552 AGCACCGTGGGAAGACACTTTGTTCTTATCATCCTCGGACAAACGAGCCTCCCAATC 1611
Db 804 LeuThrIleGlyLysAsnThr-----ProThrGlyGlyThrThrAlaThrProLysVal 821
QY 1611 ----- 1611
Db 822 AsnIleThrSerThrAlaAspGlyLeuAsnPheAlaLysGlnThrAlaAspAlaSerGly 841
QY 1612 -----CTTCTGAGATCCAGTGGACAGAG 1638
Db 842 SerLysAsnValThrLeuLysGlyIleAlaThrThrLeuThrGlnProSerAlaGlyAla 861
QY 1639 CAAGTGGCTTTGTA-----GTGGACAAAACCAAAATGGCTTCCTCCAAATC 1689
Db 862 LysSerSerHisValAspLeuAsnValAspAlaThrLysLysSerAsnAlaAlaSerIle 881
QY 1690 CCAAGCATGTCTAAGTGTGGACACTTGGAAATACAGTGTGCAACCAAGCTCACAACCTTG 1749
Db 882 GlnAspValLeuThrGlnGly-----TrpAsnIleGlnGlyAsnGlyAsnAsnVal 898
QY 1750 ACCCTGACTGTACAGTCCGCTGCCATGCTAC-----CTGCCTCA 1794
Db 899 AspThrValAlaThrThrTrpAspThrValAsnPheThrAspSerThrGlyThrThrThr 918
QY 1795 ATTAGAGTGACTCCAAAGCAAGCAAGACACAGCAAAATCCCGAGCCTCGTAGTT 1854
Db 919 ValThrValThrGlnLysAlaAspGlyLysGly----- 929
QY 1855 TATGCAATATTCGCCAGAGAGCGCTCCCAATTCAGGCGCACAGTGTACAGCGCTGATT 1914
Db 930 ---AlaAspValLysIleGlyAlaLys-----ThrSerValIle 941
QY 1915 GAATCACTGAATGAAAAACAGTTACC---TGGAACTACTGATTAATGAGCAGAGCTGT 1971
Db 942 LysAspHisAsnGlyLysLeupheThrGlyLysAspLeuLysAspAlaAsnAsnGlyAla 961
QY 1972 GATGCTACTGAAGTACAGGT-----CTTACTCAAGATATTTC 2010
Db 962 ThrValSerGlnAspAspGlyLysAspThrGlyThrGlyLeuValThrAlaLys----- 979
QY 2011 ACAACTTATGACAGCAATGATACAGTGTAAAGTGGCGGCTCTGGGA----- 2061
Db 980 ThrValIleAspAlaValaLysAsnSerGlyTrpArgValThrGlyGlnGlyAlaThrAla 999
QY 2062 -----GGAGTTAACGACGCCAGAGAGAGATGATACCCAGCAGAGTGA 2106
Db 1000 GlnThrGlyAlaThrAlaValaLysAlaGlyAsnAlaGlnThrValThrSerGlyThrSer 2109
QY 2107 GCAGTGTACTACTGCTGGCTGGATTTGAGATGATGAATATACATGAAATCCACCAAGACT 2166
Db 1020 ValAsnPheLysAsnGly-----AsnAlaThrThrAla 1030
QY 2167 GAATTAATAGAGAT-----GATGTT----- 2187
Db 1031 ThrValSerLysAspAsnGlnLysAsnValLysThrAspValaLysValaGlyAspGly 1050
QY 2188 -----CAACACAAGAGTGTGTTTCAGACAGACATCC-----TCGGGA 2226

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 17, 2002, 09:10:09 ; Search time 3.81947 Seconds
(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-17

Perfect score: 106

Sequence: 1 GGCAATTCACATTTTAAAAAT.....AAATTAATCATTCATCCTT 106

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Archived: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 10%

Listing first 45 summaries

Database :

Issued Patents_NA: *
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2: /cgn2_6/ptodata/2/ina/5B.COMB.seq: *
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq: *
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq: *
5: /cgn2_6/ptodata/2/ina/PCUTUS.COMB.seq: *
6: /cgn2_6/ptodata/2/ina/Backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	106	100.0	3007	4	US-09-193-562D-27
2	76.8	72.5	878	1	US-08-469-667-8
3	76.8	72.5	878	4	US-09-224-110-8
4	76.8	72.5	878	5	PCT-US95-07289-8
5	33.2	31.3	2520	2	US-08-454-557C-50
6	33.2	31.3	2520	2	US-08-340-426D-50
7	33.2	31.3	2520	2	US-08-450-673C-50
8	33.2	31.3	2520	5	US-08-125-287-5
9	28	26.4	12839	3	US-09-125-287-5
10	28	26.4	12839	3	US-09-125-287-5
11	27.4	25.8	1123	1	US-08-700-626-2
12	27.4	25.8	1123	1	US-08-700-626-2
13	27	25.5	13865	4	US-09-201-641-5
14	27	25.5	13865	4	US-09-009-217-11
15	26.6	25.1	18765	4	US-09-009-656-11
16	25.6	24.2	1529	3	US-08-976-259-12
17	25.6	24.2	1529	3	US-09-189-760-5
18	25.6	24.2	1529	3	US-09-188-811-5
19	25.6	24.2	1529	4	US-09-514-422-5
20	25.4	24.0	5632	4	US-08-311-023-3
21	25.2	23.8	662	4	US-09-560-594-3
22	25.2	23.8	5162	2	US-08-998-416-812
23	25.2	23.8	5162	3	US-08-916-917-13
24	25	23.6	1708	3	US-09-225-170-13
25	24.8	23.4	15062	4	US-09-108-020-5
26	24.6	23.2	1860	4	US-09-004-838-89
27	24.6	23.2	5655	2	US-08-624-125-1

28	24.6	23.2	5655	3	US-08-996-685-1	Sequence 1, Appli
29	24.6	23.2	5655	3	US-08-880-179-2	Sequence 2, Appli
30	24.6	23.2	6008	1	US-07-789-915A-5	Sequence 5, Appli
31	24.6	23.2	6008	1	US-08-005-002C-5	Sequence 5, Appli
32	24.6	23.2	6008	1	US-08-487-203A-5	Sequence 1, Appli
33	24.6	23.2	9919	3	US-08-880-179-1	Sequence 1, Appli
34	24.6	23.2	10396	1	US-08-245-809-5	Sequence 4, Appli
35	24.6	23.2	10965	1	US-08-107-748-4	Sequence 4, Appli
36	24.6	23.2	10965	5	PCT-US92-01385-4	Sequence 4, Appli
37	24.4	23.0	789	1	US-08-508-448C-14	Sequence 14, Appli
38	24.4	23.0	852	4	US-09-078-294-18	Sequence 18, Appli
39	24.4	23.0	1517	1	US-08-508-448C-15	Sequence 15, Appli
40	24.4	23.0	2494	3	US-09-189-760-1	Sequence 1, Appli
41	24.4	23.0	2494	4	US-09-514-422-1	Sequence 1, Appli
42	24.4	23.0	6142	4	US-09-514-302-1	Sequence 1, Appli
43	24.4	23.0	11811	4	US-09-078-294-7	Sequence 7, Appli
44	24.2	22.8	728	4	US-09-227-357-86	Sequence 86, Appli
45	24.2	22.8	771	4	US-09-461-697-153	Sequence 153, App

ALIGNMENTS

RESULT 1	US-09-193-562D-27	Sequence 27, Application US/09193562D
Patent No. 6309857		
GENERAL INFORMATION:		
APPLICANT: Pauli, Benedicht U.		
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium		
TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules		
FILE REFERENCE: 18617 0052		
CURRENT APPLICATION NUMBER: US/09/193,562D		
CURRENT FILING DATE: 1998-11-17		
PRIOR APPLICATION NUMBER: US/60/065,922		
PRIOR FILING DATE: 1997-11-17		
NUMBER OF SEQ ID NOS: 47		
SEQ ID NO 27		
LENGTH: 3007		
TYPE: DNA		
ORGANISM: Homo sapiens		
US-09-193-562D-27		
Query Match	100.0%; Score 106; DB 4; Length 3007;	
Best Local Similarity	100.0%; Pred. No. 5.8e-26;	
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY 1	GGCAATTCACATTTTAAAAATATGTCAGAGTCAGAGAACTGCAGCTGTCAATAGCC 60	
DB 2729	GGCAATTCACATTTTAAAAATATGTCAGAGTCAGAGAACTGCAGCTGTCAATAGCC 2788	
QY 61	TAGGCGCTGATTTTGTGTCAGATTAATAATTAATCATTCATCCTT 106	
DB 2789	TAGGCGCTGATTTTGTGTCAGATTAATAATTAATCATTCATCCTT 2834	
RESULT 2	US-08-469-667-8	Sequence 8, Application US/08469667
Patent No. 5733748		
GENERAL INFORMATION:		
APPLICANT: Yu, Guo-Liang		
APPLICANT: Rosen, Craig		
TITLE OF INVENTION: Colon Specific Genes and Proteins		
NUMBER OF SEQUENCES: 24		
CORRESPONDENCE ADDRESS:		
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,		
ADDRESSEE: Stewart & Olstein		
STREET: 6 Becker Farm Road		
CITY: Roseland		
STATE: NJ		
COUNTRY: USA		
ZIP: 07068-1739		

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-08-469-667-8

Query Match 72.5%; Score 76.8; DB 1; Length 878;
Best Local Similarity 91.0%; Pred. No. 1.6e-16;
Matches 81; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 1 GGCATTACATTTTAAATATATGTGAGTGGATAGACAGACGCGTCAATAGCC 60
|||||
Db 717 GGCATTACATTTTAAATATATGTGAGTGGATAGACAGACGCGTCAATAGCC 60
OY 61 TAGGGCTGAATTTTGTGCAGATAATATAA 89
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Db 777 TAGGGCTGAATTTTGTGCGGTGAATATAA 805

RESULT 3
US-09-224-110-8
Sequence 8, Application US/09224110
Patent No. 6337195
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESS: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,110
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134

REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-09-224-110-8

Query Match 72.5%; Score 76.8; DB 4; Length 878;
Best Local Similarity 91.0%; Pred. No. 1.6e-16;
Matches 81; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 1 GGCATTACATTTTAAATATATGTGAGTGGATAGACAGACGCGTCAATAGCC 60
|||||
Db 717 GGCATTACATTTTAAATATATGTGAGTGGATAGACAGACGCGTCAATAGCC 60
OY 61 TAGGGCTGAATTTTGTGCAGATAATATAA 89
|||||
Db 777 TAGGGCTGAATTTTGTGCGGTGAATATAA 805

RESULT 4
PCT-US95-07289-8
Sequence 8, Application PC/TUS9507289
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,
ADDRESS: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
PCT-US95-07289-8

APPLICATION NUMBER: US/08/450,673C
FILING DATE: 30-MAY-1995

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CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 2520 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-450-673C-50

Query Match
Best Local Similarity 31.3%; Score 33.2; DB 2; Length 2520;
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

2 GCATTACATTTTAAATATGTGAGAGTAGAGAGACGCTGTCAATAGCCT 61
2412 GAACACATGCTTTAAATATGACAGTGGAGGAGGCTGATTAACGTCACAAAGCTA 2353
62 AGGCGTGAATTTTGTGACATAAATAAATATCATTCATC 103
2352 AAAAAAGATCCTTGATGATTAATTACAAAGCATGATC 2311

RESULT 8
PCT-US95-17111A-50/C
Sequence 50, Application PC/TUS9517111A
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
TITLE OF INVENTION: Neural Thread Protein Gene Expression and
TITLE OF INVENTION: Detection of Alzheimer's Disease
NUMBER OF SEQUENCES: 121
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17111A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/340,426
FILING DATE: 14-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 2520 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
PCT-US95-17111A-50

Query Match 31.3%; Score 33.2; DB 5; Length 2520;
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Best Local Similarity 57.8%; Pred. No. 0.043;
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

2 GCATTACATTTTAAATATGTGAGAGTAGAGAGACGCTGTCAATAGCCT 61
2412 GAACACATGCTTTAAATATGACAGTGGAGGAGGCTGATTAACGTCACAAAGCTA 2353
62 AGGCGTGAATTTTGTGACATAAATAAATATCATTCATC 103
2352 AAAAAAGATCCTTGATGATTAATTACAAAGCATGATC 2311

RESULT 9
US-09-125-287-5/C
Sequence 5, Application US/09125287B
Patent No. 6114602
GENERAL INFORMATION:
APPLICANT: BARG, Rivka
TITLE OF INVENTION: METHOD FOR THE INTRODUCTION OF GENETIC PARTHENOCAPI IN PLANTS
TITLE OF INVENTION: METHOD FOR THE INTRODUCTION OF GENETIC PARTHENOCAPI IN PLANTS
FILE REFERENCE: INTRO GENETIC PARTHENOCAPI IN PLANTS
CURRENT APPLICATION NUMBER: US/09/125,287B
EARLIER FILING DATE: 1998-11-09
EARLIER APPLICATION NUMBER: PCT/IL97/00051
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 2293
TYPE: DNA
ORGANISM: ROLB GENE
US-09-125-287-5

Query Match
Best Local Similarity 26.4%; Score 28; DB 3; Length 2293;
Matches 52; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

5 TTCCATTTTAAATATGTGAGAGTAGAGAGACGCTGTCAATAGCCTAGG 64
1770 TTACGTACCAATAGTTTCTTAAGTGGTATTAATCGATTTTAAAAAGTGAAT 1711
65 GCTGAATTTTGTGACATAAATAAATATCATC 96
1710 TGAATAATTTAGTGAAGAAACAAATGGAAC 1679

RESULT 10
US-09-125-287-1/C
Sequence 1, Application US/09125287B
Patent No. 6114602
GENERAL INFORMATION:
APPLICANT: BARG, Rivka
TITLE OF INVENTION: METHOD FOR THE INTRODUCTION OF GENETIC PARTHENOCAPI IN PLANTS
TITLE OF INVENTION: METHOD FOR THE INTRODUCTION OF GENETIC PARTHENOCAPI IN PLANTS
FILE REFERENCE: INTRO GENETIC PARTHENOCAPI IN PLANTS
CURRENT APPLICATION NUMBER: US/09/125,287B
EARLIER FILING DATE: 1998-11-09
EARLIER APPLICATION NUMBER: PCT/IL97/00051
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 12839
TYPE: DNA
ORGANISM: TPRP-F1 GENOMIC CLONE
FEATURE:
NAME/KEY: unsure
LOCATION: (5)-(11322)
OTHER INFORMATION: "n"s are any nucleic residue
US-09-125-287-1
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Query Match          26.4%; Score 28; DB 3; Length 12839;
Best Local Similarity 56.5%; Pred. No. 3.5;
Matches 52; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 5 TTCACATTTTAAATAATGTCGTAAGTGCAGGCTGCTCAATAGCTAG 64
DB 10709 TTACGTACAAATAGCTTTGTTAAAGTGGTAAATTAATGATTTTAAAAAGTGAAT 10650
QY 65 GCTGAATTTTGTGACATTAATTAATTAATC 96
DB 10649 TGAATTTTGTGACAGAAACAAATGAAC 10618

RESULT 11
US-08-700-626-2
; Sequence 2, Application US/08700626
; Patent No. 5734038
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN DBI/ACBP-LIKE PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTA Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/700,626
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0115 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1123 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: PGANOT01
; CLONE: 620984
; US-08-700-626-2

Query Match          25.8%; Score 27.4; DB 1; Length 1123;
Best Local Similarity 65.6%; Pred. No. 2.8;
Matches 40; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 33 GATAGAGAACTGACGCTCATATGCTAGGCTGAATTTTGTGACATAATAATAA 92
DB 973 GACTGAAACATGCACTGTATATGATAGGCTTCCATATGAAAGAACTCAAAA 1032
QY 93 A 93
DB 1033 A 1033

RESULT 12
US-09-201-641-5
; Sequence 5, Application US/09201641A
; Patent No. 6232530
; GENERAL INFORMATION:
; APPLICANT: Cunningham Jr, Francis X
; APPLICANT: Delapenna, Dean
; TITLE OF INVENTION: Method for Regulating Carotenoid Biosynthesis in
; FILE REFERENCE: Quest 41-162
; CURRENT APPLICATION NUMBER: US/09/201,641A
; CURRENT FILING DATE: 1998-11-30
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1887
; TYPE: DNA
; ORGANISM: Tagetes erecta
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (141)..(1688)
; OTHER INFORMATION: epsilon-cyclase
; US-09-201-641-5

Query Match          25.8%; Score 27.4; DB 4; Length 1887;
Best Local Similarity 62.3%; Pred. No. 3.2;
Matches 43; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 28 AAGTGATGAGAGAACTGCGCTGTCATAGGCTAGGCTGAATTTTGTGACATAATAA 87
DB 736 AAGTGAACGATTTACTGAAGCTCCAAATAGGCTTAAGTCTCATAGCTGAAGCAATA 795
QY 88 AATAAATC 96
DB 796 TCACATTC 804

RESULT 13
US-09-009-217-11
; Sequence 11, Application US/09009217
; Patent No. 6132729
; GENERAL INFORMATION:
; APPLICANT: Thorpe, Philip E.
; APPLICANT: King, Steven W.
; APPLICANT: Gao, Boning
; TITLE OF INVENTION: COMBINED TISSUE FACTOR AND
; TITLE OF INVENTION: CHEMOTHERAPEUTIC METHODS AND COMPOSITIONS FOR COAGULATION
; TITLE OF INVENTION: AND TUMOR TREATMENT
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/009,217
; FILING DATE: Concurrently Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/042,427
; FILING DATE: 27-MAR-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,205
; FILING DATE: 27-JAN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/035,920
; FILING DATE: 22-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Hibler, David W.
```

REGISTRATION NUMBER: 41,071
REFERENCE/DOCKET NUMBER: UTSD:536
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ. ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 13865 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-009-217-11

Query Match
Best local Similarity 54.5%; Score 27; DB 3; Length 13865;
Pred. No. 7.6;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

3 CATTCACATTTTAAATTTATGTCAGATGAGAGACTGCATATAGCCTA 62
DB 8914 CTTTATTTTAAAAAATTTGCATACAGTGATCCACAGAGTTCAACCATGTGTTCA 8973
63 GGGCTGAATTTTGTGTCAGATTAATAATAATCATTTCA 101
DB 8974 GGGGTCAACGTCTTGTGTTAAATAATATATTATTAA 9012

RESULT 14
US-09-009-656-11
Sequence 11, Application US/09009656
Patent No. 6132730
GENERAL INFORMATION:
APPLICANT: Thorpe, Philip E.
APPLICANT: King, Steven W.
TITLE OF INVENTION: COMBINED TISSUE FACTOR AND FACTOR VIIA
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COAGULATION AND TUMOR
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,656
FILING DATE: Concurrently Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/042,427
FILING DATE: 27-MAR-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/036,205
FILING DATE: 27-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/035,920
FILING DATE: 22-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Hibler, David W.
REGISTRATION NUMBER: 41,071
REFERENCE/DOCKET NUMBER: UTSD:537
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ. ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 13865 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-009-656-11

Query Match
Best local Similarity 54.5%; Score 27; DB 3; Length 13865;
Pred. No. 7.6;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

3 CATTCACATTTTAAATTTATGTCAGATGAGAGACTGCATATAGCCTA 62
DB 8914 CTTTATTTTAAAAAATTTGCATACAGTGATCCACAGAGTTCAACCATGTGTTCA 8973
63 GGGCTGAATTTTGTGTCAGATTAATAATAATCATTTCA 101
DB 8974 GGGGTCAACGTCTTGTGTTAAATAATATATTATTAA 9012

RESULT 15
US-08-976-259-12/C
Sequence 12, Application US/08976259
Patent No. 6316609
GENERAL INFORMATION:
APPLICANT: Dillon, Patrick J.
APPLICANT: Choi, Gil H.
APPLICANT: Welch, Rodney A.
TITLE OF INVENTION: Nucleotide Sequence of Escherichia coli
Patent No. 6316609
NUMBER OF SEQUENCES: 142
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Ave, N.W., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/976,259
FILING DATE: Herewith
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/031,626 AND US 60/061,953
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0740002/EKS/CBM
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ. ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2676 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-976-259-12

Query Match
Best local Similarity 56.2%; Score 26.6; DB 4; Length 2676;
Pred. No. 6.5;
Matches 50; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

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DB 730 TTTCTGATTTACAACTTTGGAGTAGAATTTCAATTCCTTTCTCAAGACATC 671
65 GCTGAATTTTGTGTCAGATTAATAATAATTA 93
DB 670 ATCGAATACATCTCTGATTAATTTCTAAA 642

Tue Oct 22 11:21:36 2002

us-09-049-696-17.rni

Page 7

Search completed: October 17, 2002, 11:15:09
Job time : 12.8195 secs

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 12.7632 Seconds
(without alignments)
11417.439 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 5380

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 2442594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0-UNITS=bits-START=1-END=-1-MATRIX=blomsu62-TRANS=human40.cdi
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-YGAPOP=10-YGAPEXT=0.5-DELOP=6-DELEXT=7

Database : Issued_Patents_AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4753	88.3	914	US-09-193-562D-28	Sequence 28, Appl
2	2462.5	45.8	903	US-09-193-562D-46	Sequence 46, Appl
3	2328	43.3	905	US-09-193-562D-2	Sequence 2, Appl
4	2324.5	43.2	902	US-09-193-562D-34	Sequence 34, Appl
5	2258.5	42.0	1000	US-09-193-562D-30	Sequence 30, Appl
6	2125	39.5	795	US-09-193-562D-11	Sequence 11, Appl
7	2125	39.5	821	US-09-193-562D-12	Sequence 12, Appl
8	1988	37.0	943	US-09-193-562D-32	Sequence 32, Appl
9	1203	22.4	228	US-08-469-667-9	Sequence 9, Appl
10	1203	22.4	228	US-09-224-110-9	Sequence 9, Appl
11	1203	22.4	228	PCT-US95-07289-9	Sequence 9, Appl
12	947.5	17.6	342	US-09-193-562D-13	Sequence 13, Appl

13	408	7.6	203	4	US-09-193-562D-3	Sequence 3, Appl
14	143	2.7	2411	4	US-09-268-347-36	Sequence 36, Appl
15	141.5	2.6	1912	1	US-08-409-995-4	Sequence 4, Appl
16	141.5	2.6	1912	3	US-08-685-467-4	Sequence 4, Appl
17	141.5	2.6	2353	4	US-09-377-155-33	Sequence 33, Appl
18	141.5	2.6	2353	4	US-08-913-942-4	Sequence 4, Appl
19	141.5	2.6	2353	4	US-09-669-974-33	Sequence 33, Appl
20	141.5	2.6	2354	4	US-09-268-347-47	Sequence 47, Appl
21	140.5	2.6	1529	2	US-08-728-470-10	Sequence 10, Appl
22	140.5	2.6	1529	4	US-08-719-641-10	Sequence 10, Appl
23	138.5	2.6	1536	1	US-08-038-682-2	Sequence 2, Appl
24	138.5	2.6	1536	1	US-08-302-832-2	Sequence 2, Appl
25	138.5	2.6	1536	2	US-08-530-198-2	Sequence 2, Appl
26	138.5	2.6	1536	2	US-08-469-880-2	Sequence 2, Appl
27	138.5	2.6	1536	2	US-08-728-470-2	Sequence 2, Appl
28	138.5	2.6	1536	2	US-08-617-697-2	Sequence 2, Appl
29	138.5	2.6	1536	4	US-08-719-641-2	Sequence 2, Appl
30	138.5	2.6	1600	2	US-08-617-697-10	Sequence 10, Appl
31	131	2.4	1161	4	US-09-327-536-2	Sequence 2, Appl
32	130	2.4	1848	4	US-08-296-791-6	Sequence 6, Appl
33	130	2.4	1848	5	PCT-US95-10661A-6	Sequence 6, Appl
34	127.5	2.4	1702	4	US-08-296-791-5	Sequence 5, Appl
35	127.5	2.4	1702	5	PCT-US95-10661A-5	Sequence 5, Appl
36	121	2.2	710	4	US-09-171-461-16	Sequence 16, Appl
37	121	2.2	1541	4	US-08-296-791-3	Sequence 3, Appl
38	121	2.2	1541	5	PCT-US95-10661A-3	Sequence 3, Appl
39	120.5	2.2	2439	4	US-09-074-658-11	Sequence 11, Appl
40	118.5	2.2	599	3	US-09-045-632-35	Sequence 28, Appl
41	118.5	2.2	642	3	US-09-045-632-35	Sequence 35, Appl
42	118.5	2.2	818	3	US-09-045-632-25	Sequence 25, Appl
43	118.5	2.2	861	3	US-09-045-632-34	Sequence 34, Appl
44	118.5	2.2	916	3	US-09-045-632-21	Sequence 21, Appl
45	118.5	2.2	961	3	US-09-045-632-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 0
Score: 4753.00
Percent Similarity: 100.00%
Best Local Similarity: 99.78%
Query Match: 88.35%
DB: 4
Gaps: 0
Length: 914
Matches: 912
Conservative: 2
Mismatches: 0
Indels: 0
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Db 1 MetGlyProPheLysSerValPheIleuIleuIleuIleuIleuIleuIleu 20
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QY 85 ACTAATTCACATTCAGCTGAACAACAATGCGTATGAAGCATTCGCTTCATTCGAC 144
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Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlnGlyTyrGlnGlyIleValAlaIleAsp 40
QY 145 CCCAATGTGCAGAGAAGTGAACACACTCATTCACAAATTAAGACATGGTGACCAGCA 204
Db 41 ProAsnValProGlnAspGlnThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTG 264
Db 61 SerLeuTyrLeuPheGlnAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCGTAACATGAGAGCAAAAGGCTGACATGTGAGACCAAAACTTGAGACCTACAAA 324
Db 81 IleProGlnThrTyrPheLysAlaAspTyrValArgProLysLeuGlnThrTyrLys 100
QY 325 AATCGTAGTGTCTGTGTGTGAGTACTACTCTCCAGTATATGATGTAACCTTACAGAG 384
Db 101 AsnAlaAspValLeuValAlaGlnSerThrProProGlnAsnAspGlnProTyrThrGln 120
QY 385 CAGATGGGCAACTGTGAGAGAAAGGTAAGATCCACCTCACTCTGATTTCATTGCA 444
Db 121 GlnMetGlnAsnCysGlyGlnLysGlyGlnArgGlnIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTTAGCTGATATGACCCAGCAAGGTAGGCAATTTGTCCTAGAGTGGCTCAT 504
Db 141 GlyLysLysLeuAlaGlnTyrGlyProGlnGlyLysAlaPheValHisGlnTyrPheAlaHis 160
QY 505 CTACGATGGGAGATTTTGAAGAGTACAAATATGATGAGAAATTTCTACTTATCCATGGA 564
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QY 625 CAGGAGGCGAGCTGTGTACACCAAAAGATGACATTCATTAAGTAACAGAGCTATGAA 684
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QY 685 AAGAGATGTAGTTTGTCTCCAAATCCCGCAGACGAGAGAGGCTTCTATATGTTTGA 744
Db 221 LysGlyLysGlnPheValLeuGlnSerArgGlnThrGlnLysAlaSerIleMetPheAla 240
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Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
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QY 1045 GGGTCTCTGGTTGGATGTGATGATTGACAGTGTGCCATGTACAAAGTGAACATATA 1104
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Db 401 ProThrAspGlySerGlnIleValLeuLeuThrAspGlyGlnAspAsnThrIleSerGly 420
QY 1285 TGCCTTAACGAGGCAACAAAGTGTGCCATCATCACACAGCGCTTGGGGCCCTCT 1344
Db 421 CysPheAsnGlnValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
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QY 1405 GATCAAGTTCAGAAATGGCTCATGATGATGCTTTTGGGGCCCTTCATCAGGAATATGA 1464
Db 461 AspGlnValAlaLysAsnGlnLysLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480
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Db 481 AlaValSerGlnArgSerIleGlnLeuGlnSerLysGlyLeuThrLeuGlnAsnSerGln 500
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Db 521 ThrThrPheThrGlnProProGlnIleLeuLeuThrPheProSerGlyGlnLysGlnGly 540
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QY 1705 GTTGGCACTTGAATAACAGTGTGCAAGAGTGTCAAAACCTTGACCTGATGTGACG 1764
Db 561 ValGlyThrTyrPheLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580
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DB 761 AAGAGUlllehlslglYserleuileasnleuhtntrpfrhAlaProcllysprslyr 780
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DB 801 AsplyrphAsnlgYserleuInvalsntrhAlaIleuIleProlyslulAlasn 820
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QY 2545 TTCATTCGATTCAGAGCTGTGTATAGCTGCATGTGAATTCAGAAATATCAACATTCGA 2604
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DB 861 AArgValSerleuPhelrProglIntrProgluIthrProserProAsprrleuIthr 880
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DB 901 lIemetrplystrpIleglYgluIleuInleuSerIleAla 914

RESULT 2

US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT

ORGANISM: Unknown

FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:

Pred. No.: 1,94e-207 Length: 903
Score: 2462.50 Matches: 494
Percent Similarity: 71.04% Conservative: 139
Best Local Similarity: 55.44% Mismatches: 233
Query Match: 45.77% Indels: 25
DB: 4 Gaps: 13

US-09-049-696-20 (1-2983) x US-09-193-562D-46 (1-903)

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QY 85 ACTAATCACTCATTCACAGTCAACAACAATGGCTATGAAGCATTCGCTCAATGCAC 144
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DB 20 LysSerSerMetValAsnleuIleAsnAsnnglyYrAspGlylIleValIleAlaIleAsn 39

QY 145 CCCAATGTCCSAGAAATGAACACATTCACAAATGAAGACATGTGACCAGCA 204
|||||
DB 40 ProserValrProgluAsprrleuYlsleuIlegluAsnIleYsgIleMetValIthrIuAla 59
QY 205 TCTGTATCTGTGTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTGGCATTTTG 264
|||||
DB 60 SerThrYrleuPhelrleuIleAlaIleYsArGValYrPhelrAsnValSerIleleu 79
QY 265 ATTCTGAAACATGGAACACAAAGCTGACTATGTGAGACCAAACTTGACACTACAA 324
|||||
DB 80 lIeProMetIthrTrpYlsSerYlsSergluYrleuMetProlysgIleuSerYrAsp 99
QY 325 AATGCTGATGTTCTGGTGTGAGTCTACTCTCTCCAGGTAATAGGAACCCATGAC 384
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DB 100 GluAlaGlValAlIleValAlAlasnProGlyrleuYshIsglyAsprrleuYrThrleu 119
QY 385 CAGATGGCGCACTGTGAGAGAGGCTGAAGAGACACCACTCCATCTGATTCATTCGA 444
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DB 120 GluYrGlyArgCysGlygluYsgIleuYrIlehlslleAsnPhelrProAsnPhelrleu 139
QY 445 GGAATAAACTTACATATGACACACAGAGTACAGGCAATTTGTCCATGAGTGGCTCAT 504
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DB 140 ThrAsnAsnleuProIleYrIleYserArGlyArGAlaPhelrAlhlslgluTrpAlhlsl 159
QY 505 CTAGACATGGGCGATTTTGTGACAGTACAAATAGATGAATTCCTACTTATCC--AAT 561
|||||
DB 160 leuArGTrpGlyIlePhelrAsprrleuYrAsnlgYAsprrleuProPhelrYrIleSerArG 179
QY 562 GGAATAATACAGACAGATGTTCACAGAGTACTAGTACAAATAGTAAAG 621
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DB 180 AsnThrIlegluAlaIleThrArGysSerThrhlsllethnglyThrAsnValIleValYls 199
QY 622 TCTCAGGAGGAGCTGTGTACACCAAAAGATGCACATTCATTAAGTAAAGAGCTAT 681
|||||
DB 200 CysGlnlglyYserCysIlethrArGrrProCysArGArGAsprrleuIthrIleuYr 219
QY 682 GAAAGAGATGTGATTTGTCTCCATCCCGCGAGGAGGAAAGCTGTATATGTT 741
|||||
DB 220 GluAlaYlsCysYrPhelrleuProgluYlsSerGlulhrAlaIleuYrIleuSerIleMet 239
QY 742 GCACAAGTGTGATTCATTAAGTGTGTGTACAGACAAACACACAAAGAGCT 801
|||||
DB 240 MetGlnSerleuIleSerValIthrGlrPhelrCysThrIgluYshThrAsnValIleuAla 259
QY 802 CCAACCAACCAAAATGCATATCCAGACACATGGGAAGTGCATCTATCT 861
|||||
DB 260 ProAsnleuGlnAsnIleYsMetCysAsnlglyYserThrTrpAsprrleuIleMetAsnSer 279
QY 862 GAGGACTTAAAGAAACACACTCTATGACA-----ACACAGCCCAAAATCCCACTTC 915
|||||
DB 280 ThrAsprrleuIleAsnThrSerProMetIthrGluMetAsnProIthrGlnIthrPhelr 299
QY 916 TCATTCGTGCAGATTCGACAAAGAAATGTGTGTATAGTCTTGACAAATCTGGAAGCATG 975
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DB 300 SerleuIleuYlsSerleuGlnArGlyAlaYlsleuValIleuAsprrleuYserIleuMet 319
QY 976 GCGACTGTACCGGCTCAATGCACTGAATCAAGACAGGCGCACTTTCTGCTGCAGACA 1035
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DB 320 SerSerGluAsprrleuPhelrMetAsnGlnAlaIleuIleuPhelrleuIleGlnIle 339
QY 1036 GTTGAAGCTGGGGTCTGTGGATGGTGAATTCGATTCAGAGCGCCCATGACAAAGT 1095
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DB 340 lIlegluYlsGlySerleuValIleuMetValIthrPhelrAsprrleuValIleGluIleArgAsn 359
QY 1096 GAATCATACAGATTAAGAGTGGCAGTACAGAGGACACACTGCCCAAAAGATTAACCTCA 1155
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DB 360 AsnleuIthrYrIleThrAsprrAsnValYrGluAsnIlethrlAlaAsnleuProglIn 379
QY 1156 GCAGCTTACAGAGGAGCTGCATCTGCACAGGCGCTGCATGCGGCAATT---ACTGTGATT 1212
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DB 380 GluAlaAsnnglyYrThrSerIleCysArGrrleuYrAlaGlyrPhelrAlaIleIle 399

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QY 1213 AGAAGAAATATCCACTGATGATGTAATATGCTGCTGACGAGATGGGAGAAC 1272
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Db 400 GlnSerGlnSerThrSerGlySerGlnLeuLeuThrAspGlyGlnAsp 419
QY 1273 ACATATAGTGGGCTTTAAGAGATCAACAAAGTGGTCCCATCATCCACAGTGGCT 1332
    ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 420 GlnLeuHisSerGlySerGlnValGlnValGlnSerGlyValLeuHisThrValAla 439
QY 1333 TTGGGGCCCTGTCAGCTCAAGAACTAGAGAGCTGTCAAAATGACAGAGGTTTACG 1392
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 440 LeuGlyProSerAlaAlaValGlnLeuGlnThrLeuSerSerPheThrGlyHisArg 459
QY 1393 ACATATGCTTCAGATCAAGTTCAGAACAAATGCGCTCATGATGCTTTGGGCGCTTCA 1452
    ||||| ::::: ||||| ::::: ||||| ::::: ||||| ::::: |||||
Db 460 PheThrAlaValAsnValAspLeu-----AsnGlyLeuThrAsnAlaPheSerArgLeuSer 477
QY 1453 TCAGAGAAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTAGAGTAAAGGATTAACCTC 1512
    ||| ::::: ||||| ::::: ||||| ::::: ||||| ::::: |||||
Db 478 SerArgSerGlnSerLeuThrGlnGlnThrLeuLeuLeuSerGlyAlaLeuAlaLe 497
QY 1513 CAGAAAGCCAGTGGATGATGATGACAGATGATGTCAGACACCGCGGAGAAAGACACT 1572
    ::::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 498 ThrGlnLysThrThrAlaValGlnGlyThrValProValAspSerThrLeuGlyAsnAspThr 517
QY 1573 TTGTTTCTTATCACTGGAGACGACGACCGCCCAATCTCTCTGGATCCCATGGA 1632
    ||||| ::::: ||||| ::::: ||||| ::::: ||||| ::::: |||||
Db 518 PhePheValValThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 537
QY 1633 CAG-----AAGCAGGTGGCTTTGTAGTGGACAAA---AACACAAAATGGCCTTACTC 1683
    ::::: ||| ||| ||| ||||| ||| ||| ||| |||
Db 538 LysLysThrLysThrSerAspPheLysGlnAspLysLeuSerLeuHisSerAlaAlaGlyLeu 557
QY 1684 CAATATCCAGAGCATTTGCTTAAGTTGGCCTTGGCAATATCAGTCTG-----CAAGCA 1734
    ::::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 558 ArgIleProGlyLeuAlaGlnThrGlyThrThrThrThrThrThrThrThrThrThrThr 577
QY 1735 AGCTCAACAACCTTGACCTGACTGTCACGTCGCCGCTGTCACATGCTACCTGCTCA 1794
    ||| ||| ||||| ::::: ||||| ::::: ||||| ::::: |||||
Db 578 SerProGlnLeuLeuThrValThrValThrThrArgLysSerProThrThrProPro 597
QY 1795 ATTACAGTGCCTTCCAAAGACAAAGACAGACAGCAATATCCCGCCCTCTGCTGAT 1854
    ::::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 598 ValThrAlaThrAlaHisMetAsnGlnAsnThrAlaHisThrProSerProValLeuAla 617
QY 1855 TATGCAAAATATTCGCCAGAGAGCCCTCCCAATCTCAGGCGCAGTACAGCCCTGAT 1914
    ||||| ::::: ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyLeuSerValThrAlaIleLe 637
QY 1915 GAATCAGTGAATGAAAAAGAGTACCCTTGGAACTACTGATATAGGAGCAGGCTGAT 1974
    ||||| ::::: ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 638 GlnThrGlnAspGlnGlnGlnValThrLeuGlnLeuThrAspAsnGlnAlaGlnAlaAsp 657
QY 1975 GCTACTAAGATAGAGGTGCTCTACTCAAGTATTTTCAACACTATAGACAGATGGAGA 2034
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 658 AlaThrLysAspGlnValValThrSerArgThrPheThrThrThrThrThrThrThrThrThr 677
QY 2035 TACAGTGTAAAGTGGCGCTCTGGAGAGAGTAAAGCAGCAGAGAGAGATACC 2094
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 678 TyrSerValLysValHisAlaGlnAlaArgAsnAsnThrLalaArgLeuSerLeuAlaGln 697
QY 2095 CAGCAGAGTGGAGCAGCTGTCATACCTGCTGATGATGAGATGATGATGATGATGAT 2154
    ||||| ::::: ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 698 ProGlnAsnGlnLysAlaLeuThrLeuProGlyThrLeuGlnAsnGlySerLeuLeuAsn 717
QY 2155 CCACCAAGACCTGAATTAATAGATGATGATGATGATGATGATGATGATGATGATGAT 2211
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 718 ProProArgProGlnVal---LysAspAspLeuAlaLysAlaLeuLeuGlnAspPheSer 736
QY 2212 AGAATCTCTGGAGGAGCTATTTGCTGCTGATGATGATGATGATGATGATGATGAT 2271
    ||| ::::: ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 737 ArgLeuThrSerGlySerPheThrValSerGlyAlaLeuProProGlnLysAsnHisProSer 756
QY 2272 CTCCTCCACCTGGCCAAATACCGACCTGAAGCG-----GAATTCACGGGGGG 2322

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Db 757 ValLeuProProAsnLysIleThrAspLeuGlnAlaLysPheLysGlnAspHis----- 774
QY 2323 AGTCTCATTAATGATGATTTGGACAGCTCCCTGGGGATGATATATACCATGGAACAGCTCAC 2382
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 775 -----IleGlnLeuSerThrThrAlaProAlaAsnValLeuAspLysGlyValAlaAsn 792
QY 2383 AAGTATATCATTTGAAATGAATGATGATGATGATGATGATGATGATGATGATGATGAT 2442
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 793 SerTyrIleLeuArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAla 812
QY 2443 CTTCAAGTGAATCTACTGCTCTCATCCCAAGAGAACCAACTCTGAGAGAGCTTTTGG 2502
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGlnAlaGlySerAspGlnAsnPheGln 832
QY 2503 TTTAAACCAAGAAACATTAATCTTTTGAATGAGCAGACATCTTTCAATGCTATACGCT 2562
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 833 PheLysProGlnProPheArgIleGlnAsnGlyThrAsnPheThrIleAlaValGlnAla 852
QY 2563 GTTGAATAGCTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2622
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 853 IleAsnGlnAlaAsnLeuThrSerGlnValSerAsnIleAlaGlnAlaIleLysPheIle 872
QY 2623 CTTCCACAGACTCCGCCAGACACACTAGTCT 2655
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Db 873 Pro-----MetProGlnAspSerValPro 880
RESULT 3
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRF
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2
Alignment Scores:
Pred. No.: 1,19e-195 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best Local Similarity: 53.33% Mismatches: 247
Query Match: 43.27% Indels: 16
DB: Gaps: 11
US-09-049-696-20 (1-2983) x US-09-193-562D-2 (1-905)
QY 46 GTTTCATCTTGAATTTTCACTTTCAGAGGGCCCTGAGTATTCATCTACGCTG 105
    ::::: ||| ||||| ||||| ||| ::::: ||||| ::::: |||||
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValaLeu 26
QY 106 AACCAATAGCTGATGAGAGCTGTCGTTGCAATGAGACCCCAATGTCAGAGAATGAA 165
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 27 IleAsnAsnGlyThrAspGlyIleValIleAlaIleAsnProSerValProGlnAspGln 46
QY 166 ACATCTATTCACCAATTAAGACATGTCAGCCAGACATCTCTGATCTGTTGAAGCT 225
    ||||| ::::: ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 47 LysLeuIleGlnAsnLysGlnMetValThrGlnAlaSerThrThrLeuPheHisAla 66
QY 226 ACAGGAAGCAGATTTTATTTCAAAAATGTTCGCAATTTTATTCGAAACATGGAAGACA 285
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[illegible]

QY	1513	CAGAACGCCAGTGGATGGCAGACAGTACGTGGACAGACCGTGGAGAAAGCACT	1572
Db	498	ArgAlaGlyAlaThrIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspHis	517
QY	1573	TTGTTTCTATACCTGGACAAAGCGCCCAATACCTTCTGGATGCCAGTGGGA	1632
Db	518	PhePheValIleLeuThrMetValLysLysProGluIleIleLeuGlnsProLysGly	537
QY	1633	CAGAG-----CAGAGTGGCTTTGTATGTGCAAA--ACACCAAAATGGCTTACCTC	1683
Db	538	LysLysThrThrThrIleSerAspPheGlnAsnAspLysLeuAsnIleArgSerIleArgLeu	557
QY	1684	CAATCCCAAGCATTTGCTAAAGTTGGCACTGGAAATACAGTCTGCACAAAGC---TCA	1740
Db	558	GlnIleProGlyThrIleAlaGluThrGlyThrThrIleThrIleSerGlyThrGlyThrLysSer	577
QY	1741	CAAACTGTAGCCGCACTGTACAGTCCGCGGTCCAAATGCAATGCAACCTGCTCCATTTCA	1800
Db	578	GlnLeuIleThrMetThrValThrThrArgAlaArgSerProThrMetIleProLeuLeu	597
QY	1801	GTGACTTCCAAAGCAAGACAGACACCAGCAATTTCCCAAGCCCTGGATATTATTCGA	1866
Db	598	GlyLysThrIleThrIleSerIleGlnSerIleThrIleAlaGlnIleProSerArgMetIleValGlyAla	617
QY	1861	AATTTTCCCAAGAGAGCCCTCCCAATTTCTCAGGCGCAGTGCACAGCCCTGATTCATCA	1920
Db	618	ArgValSerGlnGlyPheLeuProValIleGluAlaAsnValThrIleValIleGluAla	637
QY	1921	GTGAATGGAAAAAGTTTACCTTGGAAACATGAGTAAGTAAGAGACAGTCCATGCTACT	1980
Db	638	GlnIleIleGlyHisGlnValThrLeuGluLeuThrPaspAsnGlyAlaGlyAlaAspIleVal	657
QY	1981	AAGGATACCGGTCTATCAAGATATTTTCACAACTTATGACACAAAGTGTATACAGT	2040
Db	658	LysAsnAspGlyIleGlyThrIleArgIlePheThrAspTyrHisGlyAsnIleArgGlySer	677
QY	2041	GTAAAGTCGGGCGCTGTGGAGAGTTAAACGACCCAGACGAGAGTG-----ATA	2091
Db	678	LeuLysValArg-----ValGlnAlaGlnIleArgAsnIleGlyThrArgLeuSerLeu	693
QY	2092	CCCCAGAGAGTGGAGACATGTACACCTGGCTGGATGAGAAATGCAATTCATACG	2151
Db	694	ArgGlnLysAsnLysSerLeuIleProGlyTyrValGlnAsnGlyLysIleValLeu	713
QY	2152	AATCCACAAGACCTGCAATTAATTAAGATGATGTTCAACACAAACAAAGTGTCTACG	2211
Db	714	AsnProIleArgProAspValGlnGlnGluAlaIleGluAlaThrValGlnAspPheAsn	733
QY	2212	AGAACATCTGGGAGGCTCATTTGTGGCTGTGATGTCCAAATGCTCCATACCTGAT	2271
Db	734	ArgValThrSerGlyGlySerPheThrValSerGlyAlaPro-----ProAsp	749
QY	2272	-----CTCTCCCACTGTGGCCAAATTCACGACCTGAAGCGGAAATTCAC	2316
Db	750	GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGlnAlaGluPheIle	769
QY	2317	GGGGGAGTGTCACTATATCTGACATTGGAGACGCCGGGAGATGATTAAGACATGGACA	2376
Db	770	-----GlyAspIleThrIleHisLeuThrThrPheIleAlaProGlyLysValLeuAspIleArg	788
QY	2377	GCTTCACAAGTATATCATTCGAATTAAGTACAAAGTATTCGTGATCTCAGACACAAGTTCAAT	2436
Db	789	AlaHisArgIleIleIleArgMetSerGlnHisProLeuAspLeuGlnIleAspPheAsn	808
QY	2437	GAACTCTTCAATGAATTACTAGCTGTCTATCCCAAGAGGACCAACTCTGAGGAAGTC	2496
Db	809	AsnAlaThrLeuValAsnAlaSerSerLeuIleProLysGlnAlaGlySerLysGlnAla	828
QY	2497	TTTTTGTTTAAACCAAAAATTAATCTTTTGAATAAGCAGACAGATCTTTTCACTTAT	2556
Db	829	PheLysPheLysProGluThrPheLysIleIleAsnGlyIleGlnLeuThrIleAlaIle	848
QY	2557	CAGCGTGTGATAGGTCATGCTGAATACGAATATTCACAAATTCGACAGATATCTTTG	2616

Db	849	GINAIAASPANGIUALASerLeuThrSerGIuValSerAsnIleA	-----	864
QY	2617	TTTATTCCTCCACAGACTCCGCCAGAGACACCTAGTCGTGAAAGACCTGCTCTTGT		2676
Db	865	-----GINAIAValysLeuThrSerLeuGIuAspSerSerIleSerAlaLeuIy		880
QY	2677	CCTAATATTCAT---ATCAACAGCACCAATTCCTGGCAATTCACATTTTA		2721
Db	881	AspAspIleSerAlaIleSerMetThrIleTrpGIuValLeuThrValIle		896
RESULT 5				
US-09-193-562D-30				
/ Sequence 30, Application US/09193562D				
/ Patent No. 6309857				
/ GENERAL INFORMATION:				
/ APPLICANT: Pauli, Benedicht U.				
/ TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium				
/ FILE OF INVENTION: Activated Chloride Channel-Kohesion Molecules				
/ FILE REFERENCE: 1861.0052				
/ CURRENT APPLICATION NUMBER: US/09/193,562D				
/ PRIOR FILING DATE: 1998-11-17				
/ PRIOR APPLICATION NUMBER: US/60/065,922				
/ PRIOR FILING DATE: 1997-11-17				
/ NUMBER OF SEQ ID NOS: 47				
/ SEQ ID NO 30				
/ LENGTH: 1000				
/ TYPE: PRT				
/ ORGANISM: Homo sapiens				
US-09-193-562D-30				
Alignment Scores:				
Pred. No.:	1.55e-189	Length:	1000	
Score:	2258.50	Matches:	466	
Percent Similarity:	67.18%	Conservative:	140	
Best Local Similarity:	51.66%	Mismatches:	253	
Query Match:	41.98%	Indels:	43	
DB:	4	Gaps:	13	
US-09-049-696-20 (1-2983) x US-09-193-562D-30 (1-1000)				
QY	34	TTTAAAGAGTTCTGTTCACTTGATTCCTTCACCTTCGAAAGGGCCCTGAGTAATCA	93	
Db	3	PheserIeuysValIleIeuPhelIeuSerLeuIleuLeuSerProValIeuIysSerSer	22	
QY	94	CTCATTCAGCTGAACAACAATGCGTATGAAAGCATTCGTGCTGCAATGCACCCAAATGTG	153	
Db	23	LeuValThrIeuAsnAsnAsnGIuTyTrpAspGIuIleValIleAlaIleAsnProSerVal	42	
QY	154	CCAGAAGATGAACATCATTCACAACAATTAAGACATGTGTGACCCAGGCATCTTGAT	213	
Db	43	ProGIuAspGIuIysLeuIleGIuAsnIleIysGIuMetValThrIleAlaSerThrHis	62	
QY	214	CTGTTTGAAGCTACAGGAAGCGCATTTTATTCATAAATAGTTGCCATTTGATCTGAA	273	
Db	63	LeuPhenIleSalatThrIysGIuAlaGIuAlaTyTrpAspAsnValSerIleuIleProMet	82	
QY	274	ACATGGGAAGACAAGGCTGACTATGTGAGACCCAAACTTGAGACCTACAAAATCTGAT	333	
Db	83	ThrTyIysSerIysSerGIuTyTrpLeuIleProIyGIuGIuIleThyTrpAspIleAlaAsp	102	
QY	334	GTTCTGGTGTGTGAGTCTACTCTCCACGTAATGATGAAGACCTACACGAGCAGATGGGC	393	
Db	103	ValIleValIleAlaAspLeuTyTrpLeuIysTyTrpIyAspAspProTyTrpIleuIleIyTrpIy	122	
QY	394	AACTGTGGAGGAAGGCTGAAGAGTCAACCTTCACCTCCGATTTTCATTCAGAGAAAAG	453	
Db	123	GIuIysGIuAspIySerGIuIyGIuIleIleHisRheThrProAsnRheIleuIleThrAsnAsn	142	
QY	454	TTAGCTGAATATGACACCAAGGTAGGCAATTTGTTCATAGATGGGCTGATCAAGATGG	513	
Db	143	LeuIleAlaTrpTyTrpGIuProAspGIuIyValIleValHisGIuTrpAlaHisIleuAlaTrp	162	

Db 874 AlaasValThrSerGluValSerAsnIleAlaGlnAlaThrAsnPhelIleProGln 893
QY 2632 ACTCG 2637
Db 894 GluPro 895
RESULT 6
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Paul, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617 0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11
Alignment Scores:
Pred. No.: 6,94e-178 Length: 795
Score: 2125.00 Matches: 425
Percent Similarity: 69.62% Conservative: 125
Best Local Similarity: 53.80% Mismatches: 224
Query Match: 39.50% Indels: 16
Gaps: 11
US-09-049-696-20 (1-2983) x US-09-193-562D-11 (1-795)
QY 46 GGTTCATCTTGTATCTTACCTCTAGAGAGGCCCTAGTAATTCATCTACGTCG 105
Db 8 IleuPhelLeuThrLeuHisLeuLeuProGly--MetIysSerSerMetValAsnLeu 26
QY 106 AACCAACATGGCTATGAGCAATGTCGTTGCAATGACCCCAATGTCGAGAGTAA 165
Db 27 IleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCTATTCACAATAAAGACATGTCACCCAGCATCTCTGTATCTGTTGAAGCT 225
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPheHisAla 66
QY 226 ACAGGAAGCCGATTTATTTCAAAAATGTCGTCATTTGATTCCTGAACATGGAAGACA 285
Db 67 ThrLysArgArgValTyrThrAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGGCTAGTATGAGCAAACTGACATCAAAATGCGATGTTCTGCTGCT 345
Db 87 LysSerGluTyrPheIleProLysGlnGluSerTyrAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGATGATGAACCTCACTGACGACAGATGGCAACTGTGAGAG 405
Db 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyAspGlyGlu 126
QY 406 AAGGCTGAAGAGATCCACTCTCTGATTTTCATTTGCGAGAAAAAGTTAGCTGAATAT 465
Db 127 LysGlyLysTyrIleHisThrProAsnPheLeuThrAsnAsnPhenHisIleTyr 146
QY 466 GACACCAAGATGAGGATTTGTCATGATGGGCTCATCTAGATGGGAGATTTAGC 525
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAAATATGATGAGAAATCTTACTATCC--AATGAAGAATATACAGCACTAGA 582
Db 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186

QY 583 TGTTCAGCAGGATATTACGTGTAACAATGTAGTA---AAGAGTGCAGGAGCAGCTG 639
Db 187 CysSerThrHisIleThrGlyIleAsnValPheLysLysCysProGlyLysCys 206
QY 640 TACACCAAAAGATGCACATTCATATAAATGACAGCACTATGAAAAAGATGTAGTT 699
Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuAlaLysCysThrPhe 226
QY 700 GTTTCCAATCCCGCCAGCAGAGAAAGCTTGTATATGTTTTCACACATGTTGATTC 759
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTGAATTCGTATACAAACAACCAACAAAGAAAGATCCCAACAGCAAAATATCA 819
Db 247 ValThrGlnPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AATGCAATCTCCGAGCAGCATGAGCAAGATCCGATGTCGAGCACTTAAAGAAACC 879
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCTATGACA-----ACACAGCCCAAAATCCCACTTGTATGCTGACATGTGA 933
Db 287 SerProMetThrGluMetAsnProThrHisProThrPheSerLeuLeuLysSerLys 306
QY 934 CAAAGATGTGTGTTTACTCTTGACAAATCTGAGAGATGGCAGCTGTAACCGCTTC 993
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerValGluAspArgLeu 326
QY 994 AATGCAATGATGAGCAGGAGCAGCTTCTGTCGACACAGATTTGAGCTGGGCTCTGG 1053
Db 327 PheGlnMetAsnGlnAlaIleGluLeuTyrLeuIleGlnValIleGluLysLysLeu 346
QY 1054 GTTGGAGTGTACATTTGACAGTGTGCCATGTACAAAGTGAATCTATACAGATTAAC 1113
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
QY 1114 AGTGCAGTGCAGAGGACACACTCGCCAAATAATTAACCTGCAGACAGCTTGAGAGGAG 1173
Db 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
QY 1174 TCCATCTGAGGCGCTTCATCGCATCT---ACTGTATTAGGAAGAATAATCAACT 1230
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
QY 1231 GATGATCTGAATGTCGTCGTGACGATGGGAGAACACATATAAGGGTCTTT 1290
Db 407 SerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGGTCAACAAAGTGTGCCATTCACACAGACAGTGTGGGCCCTCGCAGCT 1350
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
QY 1351 CAAGAATAGAGAGACTGTCCAAATGACAGAGGTTTCAACATATGCTTCAGATCA 1410
Db 447 LysGluLeuGlnThrLysSerAsnMetThrGlyTyrArgPhePheHisAsnLysAsp 466
QY 1411 GTTCAGAACATGCGCTCATGATGCTTTGGGCCCTTTCATCAAGAAATGAGCTGTC 1470
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgLysSerArgSerGlySerIle 484
QY 1471 TCTCAGCGCTCATCATCAGTTAGAGTAAAGGATTAACCTCCAAACAGCCAGTGGATG 1530
Db 485 ThrGlnGlnAlaIleIleLeuGlnSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
QY 1531 AATGCAACATGATGTGAGACACACCGTGGAGAAAGACACTTGTCTTATCACTGCG 1590
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QY 1591 ACAACGCAAGCTCCCAATCTCTCTGAGATCCCACTGACAG-----AAGCAAGGT 1644
Db 525 ThrIleGlnLysProGlnIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544

OY 1645 GGCATTGATAGAGCAAA---AACACCAAAATGGCCACCTCCAAATCCAGCAATGCT 1700
 Db 545 AsphrelvsgLsAbpRysLleuAsn1lleaRserAlaIrgLeu1InleProGly1leAla 564
 OY 1702 AAGGTTGGCACTGGAAATACAGCTG-----CAAGCAAGCTCACAAACCTTGACC 1752
 Db 565 GltuRrGltYhrTrpRhrYrSerLeuLleuAsn1nHisAlaserGlnMetLeuRhr 584
 OY 1753 CTGAGCTGCACAGTCCGCTGGTCCAAAGCTACCCCTGCTGATTTATGCAATATTCGCAA 1812
 Db 585 ValRhrVal1nTrpRhrAlaIrgLaserProRhr1leProProVal1leAlaTrhR1nHis 604
 OY 1813 ACGAACAAGACAGACCAACAATTCGCCAGCCCTCTGGATTTATGCAATATTCGCAA 1872
 Db 605 MetserGln1nHisRhrAla1nHisYrProserProMet1leValYrAla1nValserGln 624
 OY 1873 GGAGCCCTCCCAATTCACAGGCGCAGTGTACAGCCCTGATTTGATCAGTAAATGGAAA 1933
 Db 625 GltPheLeuProVal1nLeuGly1leSerVal1leAla1le1leG1nTrhR1nHis 644
 OY 1933 ACAGTTACCTTGGAACACTGGAATATGAGAGCGAGTGGTATGCTCTACTAGATGACGGT 1992
 Db 645 GlnAlaTrhR1nLeuG1nLeuTrpRhrAsnGly1nGly1nAlaIrgAspRhrYrAlaLysAsnRpy 664
 OY 1993 GTCTACTCAAGGTATTTCCAACTATTGACACAGCATGTAGATACAGTGAATGGCGG 2052
 Db 665 IleYrSerAlaYrPheTrpAspYrYrGly1nGly1nAlaYrGly1nSerLeuLysVal1nHis 684
 OY 2053 GCCTGGGAGGAGTTATCCGAGCGACAGCGAGAGATGATACCCAGACAGCTGGACACCTG 2112
 Db 685 AlaGlnAlaIrgAsnAsnTrhR1nAlaIrgLeuAsnLeuIrgGlnPro1nHisLysVal1nLeu 704
 OY 2113 TACATACCTGGCTGGATTGGAATGATGATGAATCAATGCAATGCAATCCACAGACCTAAAT 2172
 Db 705 TyrValProGlyYrYrVal1nGlyAsnGly1nLys1le1leLleuAsnProRhrAlaProGlyVal 724
 OY 2173 AATAAGATGATGTTCACACACAAAGCAAGTGTGTTTACAGAAATCCCTCGGAGGCTCA 2233
 Db 725 LysAspAspLeuAlaLysAlaLys1leGlyAspRheserAlaYrLeuTrhserGlyLysSer 744
 OY 2233 TTTTGGCTTGATGATGTC---CCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAA 2288
 Db 745 PheTrhValserGlyAlaProRhrProRhrGly1nAsn1nHisProserValRhrProRhrserLys 764
 OY 2288 ATCCACCACTGAAAGCGGAAATTCACAGGCGGCAAGTCAATTAATCTGACCTTGACACT 2348
 Db 765 IleTrhAspLeuGlyAlaLysRhesLys---GlyAspYrYr1leGlnLeuSerTrpRhrAla 783
 OY 2350 CCTGGGGATGATTATGACCATGGACAGACT 2379
 Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793
 RESULT 7
 US-09-193-562D-12
 ? Sequence 12, Application US/09193562D
 ? Patent No. 6309857
 ? GENERAL INFORMATION:
 ? APPLICANT: Pauli, Benedicht U.
 ? TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ? FILE REFERENCE: 18617.0052
 ? CURRENT APPLICATION NUMBER: US/09/193,562D
 ? PRIOR FILING DATE: 1998-11-17
 ? PRIOR APPLICATION NUMBER: US/60/065,922
 ? PRIOR FILING DATE: 1997-11-17
 ? NUMBER OF SEQ ID NOS: 47
 ? SEQ ID NO 12
 ? LENGTH: 821
 ? TYPE: PRT
 ? ORGANISM: Unknown
 ? FEATURE:
 ? OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
 US-09-193-562D-12

[illegible]


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Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY AATGCACTGAATACAGACGGCCAGCTTTCCGTGACAGACAGTGAAGTGGGGCTGG 1053
Db 327 PheGlnMetAsnGlnAlaIleValLeuValLeuIleGlnValIleGluLysLysSerLeu 346
QY 1054 GTTGGGATGCTGACATTTTGACAGTCTGCCATGTACAAAGTGAATGATACAGTAAAC 1113
Db 347 ValGlnMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgLeuThr 366
QY 1114 AGTGGCACTGACAGGACACACTGCCCAAAAGATTACCTGACAGACTTCACAGGAGAC 1173
Db 367 AspAspAsnValValThrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyLeuThr 386
QY 1174 TCCATCTGACAGGGCTTCGATGCGCATTTT---ACTGGATTAGGAAGAAATATCCACT 1230
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
QY 1231 GATGGATGTGAATTTGTGCTGCTGACAGGATGGGGAAGACACACATTAAGTGGTCTTT 1290
Db 407 SerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGCTCAACAAAGTGGTCCATCATCCACAGATGCTTTGGGCGCTTCGACGT 1350
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
QY 1351 CAGAACTAGAGGACCTGTCCAAATGACAGGAGTTTACAGACTATGCTTCACATCA 1410
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTrpArgPheAsnHisLysAsp 466
QY 1411 GTTCGAAACAATGCGCTCATGATGCTTTTGGGCGCTTCATCAGAAATGAGACTGTC 1470
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerLysIle 484
QY 1471 TCTAGCGCTCATCATCAGCTTGAGAGTAAAGGATTAACTCCACAGACCAAGCTGATG 1530
Db 485 ThrGlnGlnAlaIleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgArgVal 504
QY 1531 AATGGCAGAGTGTGTGGACAGCGCGGGGAAGGACACTTTTCTTCTTCACTCGG 1590
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValAlaThrTrp 524
QY 1591 ACAACGACAGCTCCCAATCTCTGATCCAGTCCAGTGCAGAC-----AAGCAAGT 1644
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QY 1645 GCGTTTGTAGTGGACA---AACACCAAAATGGCTTCACTCCAAATCCAGCAATGCT 1701
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
QY 1702 AAGTTGGCACTGTGAATATACAGTCTG-----CAAGCAAGCTCAACAACTTGACC 1752
Db 565 GluThrGlyThrTrpThrLysSerLeuLysAsnHisAlaSerSerGlnMetLeuThr 584
QY 1753 CTGACTGTACAGTCCCGTCCATGCTACCTGCTACCTCCATTAACAGTGCATTCACAA 1812
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
QY 1813 ACGAACAAGACACAGCAAAATTCGCCAGCCCTGTGATTTATGCAAAATATTCGCCAA 1872
Db 605 MetSerGlnHisThrAlaHisIleTrpSerProMetIleValTrpAlaGlnIleSerGln 624
QY 1873 GGAGCGTCCCAATTCAGGGCCAGTGCACAGCCGATGATGATGACAGTGAATGAA 1932
Db 635 GlyPheLeuProValLeuGlyLysSerValIleAlaIleIleGlyThrGluAspLysHis 644
QY 1933 ACAGTTACCTTGAAGTACTGATTAATGAGACAGGCTGCTGATGACTACTAAGATACAGT 1992
Db 645 GlnValThrLeuGlnLeuThrAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664
QY 1993 GTTACTGTAAGGATTTTACAACTTATGACACGAAATGGTAGATACAGTGAATGCGGG 2052
Db 665 IleTrpSerArgTrpPheThrAspTrpTyrGlyAsnGlyArgTrpSerLeuLysValHis 684

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QY 2053 GCTTGGGAGAGTTTAACGACCCAGACGAGATGATACCCACAGTGGACACTG 2112
Db 685 AlaGlnAlaValAsnAsnThrAlaArgLeuAsnLeuAlaGlnProGlnAsnLysValLeu 704
QY 2113 TACATACCTGGCTGTGATTTGAGATGATGAATTAATCAATGGAATCCACAGACTGAAAT 2172
Db 705 TyrValProGlyLysValGlnAsnGlyLysIleIleLeuAsnProProArgProGluVal 724
QY 2173 AATAAGATGATTTCAACACAGCAAGTGTCTTCACGACAACACTCTCGGGAGGCTCA 2232
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyLysSer 744
QY 2233 TTTGTGGCTTCGATGTC---CCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAA 2289
Db 745 PheThrValSerGlyAlaProProProGluAsnHisProSerValPheProProSerLys 764
QY 2290 ATCACCAGCTTGAAAGCGGAAATTCACGGGGGCACTGTCAATTAATCTGACTGGACACT 2349
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerThrPheAla 783
QY 2350 CCTGGGATGATTATGACCATGGAACACT 2379
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

RESULT 8
US-09-193-562D-32
; Sequence 32, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617, 0052
; CURRENT APPLICATION NUMBER: US/09/193, 562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 32
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:
Pred. No.: 7,73e-166 Length: 943
Score: 1988.00 Matches: 416
Percent Similarity: 63.04% Conservative: 164
Best Local Similarity: 45.22% Mismatches: 284
Query Match: 36.95% Indels: 56
Db: 4 Gaps: 21

US-09-049-696-20 (1-2983) x US-09-193-562D-32 (1-943)
QY 4 ATCAAGAGGAGATGATACAGCAATGGGCCATTTAGAGTTCGTGCTCATCTTATCT 63
Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu 19
QY 64 CACCTTCTAGAAGGGCCCTGAGTAATTCACCTC-----ATTTCAGCTG 105
Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35
QY 106 AACACAATGCTGTATGAAGGCACTTGTGTCATATGACACCCCAATGTGCGCAAGATGAA 165
Db 36 GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55
QY 166 ACATCATTCACAACAAATTAAGACATGTCGACCCGACGATCCTGATCTGTTGAAGCT 225
Db 56 AsnLeuIleSerAsnIleLysGlnMetIleThrGluAlaSerPheTyrLeuPheAsnAla 75
QY 226 ACAGGAAGCGATTTTATTCAAAATGTGCAATTTGATTCCTGAACAATGGAAGACA 285

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Db      76 ThrIysArgArgValPhePheArgAsnIleLysIleLeuIleProAlaThrTrpLysAla  95
QY      286 AAGGCGATGATGTGAGACCAAACTTGAGCTTACAAAATGCTGATGCTGGTGGT  345
Db      96 Asn---AsnAsnSerLysIleLeuSgIngluSerTrpGluLysAlaAsnValIleValThr  114
QY      346 GAGTCTACTCTCCAGATGATGATGAAACCTTACACTGACAGATGGGCAACTGTGGAG  405
Db      115 AspTrpTrpGlyAlaHisSgIysAspProTyrThrLeuGlnTyrArgLysGlyLys  134
QY      406 AAGGCGTGAAGATCCACTCTCTGATTCATTCGAGGAAAAAGTTA---GCTGAA  462
Db      135 GluGlyLysTrpIleHisPheThrProAsnPheLeuLeuAsnAspAsnLeuThrAlaGly  154
QY      463 TTGGGACCAAGGTAGGAGGATTTGTCATGAGTGGGCTCATGTAGATGGGAGATTTT  522
Db      155 TyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe  174
QY      523 GACGATGACAAATGATGATGAAATTTCTACTTATCC---AATGGAAATTCAGACAGTA  579
QY      175 AspGluTyrAsnAsnSpsLysProPheTyrIleAsnGlyGlnAsnGlnIleLysValThr  194
Db      580 AGATGTTACAGCAGGATATCTGTTACAAATGTAAGTAAGATGTGAGGAGGCACCTGT  639
QY      195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys  211
Db      640 TACACCAAAAGATGACATTCATTAAGTAAAGTACAGACTGTATGAAAAGATGTGATT  699
QY      212 GTTGCGlunAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPhe  228
QY      700 GTTCTCCAAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACAAATGTTGATT  759
Db      229 IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer  248
QY      760 ATATGTTGATTTCTGTACAGACAAACACACAAAGAGCTCCAAACAGCAAAATCAA  819
Db      249 ValValGluPheCysAsnAlaSerThrHisAsnGlnGluLysProAsnLeuGlnAsnGln  268
QY      820 AATGCAATCTCCGAGCAGCATGGAAGTATCCGATTCGATTCGAGGACTTAAGAAAC  879
Db      269 MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer  288
QY      880 ACTCCATG-----ACAACACAGCCACCAAAATCCGACTTCTCATGCTGCGATTTGA  933
Db      289 PheProMetAsnGlnGlyThrGluLeuProProProThrPheSerLeuValGlnAlaGly  308
QY      934 CAAGAATGTGTGTTAGTCTTGCACAAATCTGGAAGCTGCGGACTGTAACCGCTC  993
Db      309 AspLysValValCysLeuValIleuAspValSerSerLysMetAlaGluAlaAspArgLeu  328
QY      994 AATCGACTGAAATCAGACGAGCCGCTTTCTGTCGACAGCATGTGAGCTGGGGTCTCG  1053
Db      329 LeuGlnLeuGlnGlnAlaGluPheTyrLeuMetGlnIleValGluIleHisThrPhe  348
QY      1054 GTTGGAGTGTGATTTGACATGCTGCTGCCATGTACAAAGTAACTATCAATGAATAAC  1113
Db      349 ValGlyIleLeuSerPheAspSerLysGlyGluIleArgLagLeuHisGlnIleAsn  368
QY      1114 ACTGGCAGTACAGCAGCACACTCGCCAAAGATTTACTCTCAGCAGCTTACAGAGGAGC  1173
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QY      1174 -----TTCATTCGACGGCGGCTTCGATTCGCAATTCATGATTTAGGAAG---AATAT  1224
Db      389 AspIleSerIleCysSerGlyLeuLysGlyPheGluValValGluLysLeuAsnGly  408
QY      1225 CCAACTGATGATCTGAATTTGCTGCTGCGACGATGGGAGAGCAACACTATAACTGGG  1284
Db      409 LysAlaTyrGlySerValMetIleLeuValThrSerGlySpsLysLeuLeuGlyAsn  428
QY      1285 TGCCTTAAAGAGGTCAAAACAAAGTGTGCTCATATCCACAGACTCGCTTGGGCGCTCT  1344
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QY      1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAATGATACAGAGAGTTTACAGACATATGCTTCA  1404
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QY      1405 GATCAAGTTACAGACAAATGCGCTCATTTGCTTTTGGGCGCTTTCATCAGGAAATGTA  1464
Db      469 AspIleSerAsnSerAsnMetIleAspAlaPheSerArgIleSerSerGlyThrGly  488
QY      1465 GCGTCTCTCAGCGGCTCCATCCAGCTTGAGAGTAAGGAGTAAACCTCCAGAAACCGCAG  1524
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QY      1585 ACCTGG---ACAACGACGCTCCCAATTCCTTCTGTGGATGCCAGTGCAGAGAAAG---  1638
Db      529 ThrTrpGlnAlaSerGlyProGluIleIleLeuPheAspProAspLysArgLysTyr  548
QY      1639 ---CAAGTGGCTTTGTACTGGCAAAAACCAAAATGCGCTACCTCCAAATCCAGGC  1695
Db      549 TyrThrAsnAspPheThrThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGly  568
QY      1696 ATTGCTAAGTTGGCAGCTTGAATACAGTCTG-----CAAGCAAGCTCCACAAAC  1746
Db      569 ThrAlaLysProGlyHisThrTrpThrThrLeuAsnAsnThrHisSerLeuGlnAla  588
QY      1747 TTGACCTGACTGTACAGTCCGCTGCGCTCAATGTAACCTGCTCCATTCAGTGAAGT  1806
Db      589 LeuLysValThrValThrSerArgAlaSerAspSerAlaValProProAlaThrValGlu  608
QY      1807 TCCAAACGACAAAGCAGCAGCAGCAAAATCCCGACCTGCTGTGATTTATGCAATATT  1866
Db      609 AlaPheValGluArgAspSerLeuHisPheProHisProValMetIleTyrAlaAsnVal  628
QY      1867 CGCCAAAGAGCCTCCCAATTTCTCAGGCCAGCTGTCACAGCCCTGATTAATCAGTAAT  1926
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QY      1987 GACGAGTGTACTCAGGATTTTACACACTTATGACACGAAATGATGATACAGTAAATA  2046
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QY      2047 GTGCGGGCTCTGGAGAGTTTAAACGACGACGAGCAGAGATGATACCCGACAG-----  2100
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QY      2101 -----AGTGGACACTGTACATACCTGCTGCTGATGACAGATGATTAATACATGAT  2154
Db      705 ProGlySerHisIleMetTyrValProGlyTyrThrAlaAsnGlyAsnIleGlnMetAsn  724
QY      2155 CCACCAAGACCTGAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGAT  2214
Db      725 AlaProArgLysSerValGlyArgAsnGluGluArgLysTrp---GlyPheSerArg  743
QY      2215 ACATCTCGGAGAGCTCATTTGCTGCTGATGATCCCAATGCTCCATACCTGATCTC  2274
Db      744 ValSerSerGlyLysPheSerValLeuGlyValProAlaGlyProHisProAspVal  763
QY      2275 TTCACACTGCGCAATACACGACCTGAAAGCGGAAATTCACGGGGGAGCTCATTAAT  2334
Db      764 PheProCysLysIleIleAspLeuGluAla---ValLysValGluGluLeuLeuThr  782
QY      2335 CTGACTTTGACAGCTCTGGGAGTATGATGATGATGATGATGATGATGATGATGATGAT  2394
Db      783 LeuSerTrpThrAlaProGlyLysAspPheAspGlnGlyGlnAlaThrSerTyrGluIle  802

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1  APPLICATION NUMBER: 08/469,667
2  FILING DATE: 06-JUN-1995
3  ATTORNEY/AGENT INFORMATION:
4  NAME: Ferraro, Gregory D.
5  REGISTRATION NUMBER: 36,134
6  REFERENCE/DOCKET NUMBER: 325800-435
7  TELECOMMUNICATION INFORMATION:
8  TELEPHONE: 201-994-1700
9  TELEFAX: 201-994-1744
10 INFORMATION FOR SEQ ID NO: 9:
11 SEQUENCE CHARACTERISTICS:
12     LENGTH: 228 amino acids
13     TYPE: amino acid
14     TOPOLOGY: linear
15     MOLECULE TYPE: protein
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Alignment Scores:	
Pred. No.:	2,38e-97
Score:	1203,008
Percent Similarity:	100,008
Local Similarity:	100,008
Needy Match:	22,368
DB:	4
length:	228
Matches:	228
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-09-049-696-20 (1-2983) x US-09-224-110-9 (1-228)

QY	1993	GTCTACACAGATATTTACACAACTTTATGACACAGAAATGATGATACAGTGTAAAGTGGG	2052
Db	1	VallTyserrArgTyrRhetThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	2053	GCTCTGGAGAGCTTAACGCGACCGACGAGAGTATACCCGACAGAGTGAGCACTG	2112
Db	21	AlaLeuGlnGlyIleValAsnAlaIaIaArgArgValIleProGlnGlnSerGlyIaIeu	40
QY	2113	TACATCTCTGGCTGGATTGGAATGATGAATTCATGTGAATTCACCAAGACCTGAATT	2172
Db	41	TyrIleProGlyTyrPheIleGlnAsnAspGlnIleGlnTyrAspProProArgProGlnIle	60
QY	2173	AATAGATGATGTTCACACCAAGCAAGTGTTGGTTCAGAGAAACCTCGGGAGAGTCA	2232
Db	61	AsnLysAspAspArgAlaGlnHisLysGlnValCysPheSerArgThrSerSerGlyLysIer	80
QY	2233	TTTGTGGCTTCTGATGTCCCAAAATGCTCCATACCTGATCTCTGCCACCTGGCCAAATC	2292
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle	100
QY	2293	ACCGACCTGAAGCGGAAATTCACGGGGGACGTCTCATTAATCTACTTTGGACAGCTCT	2352
Db	101	ThrAspLeuLysAlaGlnIleHisGlyLysSerLeuIleAsnLeuThrTyrPheIaPro	120
QY	2353	GGGGATCATTTATACCATGGAGACAGCTGCACAGTATATCATTCGAATTAAGTCAAGTWT	2412
Db	121	GlyAspAspArgTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle	140
QY	2413	CTTGATCTCAGACACAAGTTCAATGAATCTTCAAGTGAATATCTAGCTCTCATCCCA	2472
Db	141	LeuAspLeuArgAspLysPheAsnGlnSerLeuGlnValAsnThrAlaLeuIlePro	160
QY	2473	AAGGAGCCAACTCTGAGGAAGCTTTTGTTTAAACCGAAACAAATTAATTGTAAT	2532
Db	161	LysGlnLAlaAsnSerGlnGlnValPheLeuPheLysProGlnAsnIleThrPheGlnAsn	180
QY	2533	GGCAGAGATTTTTCATCTTATCAGCTGTGGATTAAGGTGCATCTCAAAATCAGAATA	2592
Db	181	GlyThrAspLeuRhetIleAlaIleGlnAlaValAspLysValAspLeuLysSerGlnIle	200
QY	2593	TCCACATTCACAGATATCTTTGTTATTCCTCCACAGACTCCGCCAGACACCTAGT	2652
Db	201	SerAsnIleAlaArgValSerLeuPheIleProGlnThrProProGlnThrProProSer	220
QY	2653	CGGATGAAACGTCTGCTCTGT	2676

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Db      221  ProspgIntnSerAlaProcys 228

RESULT 11
PCT-US95-07289-9
: Sequence 9, Application PC/TUS9507289
GENERAL INFORMATION

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Alignment Scores:	
Pred. No.:	2.38e-97
Length:	228
Score:	1203.00
Percent Similarity:	100.00%
Best local Similarity:	100.00%
Query Match:	22.36%
DB:	5-
Gaps:	0

US-09-049-696-20 (1-2983) x PCT-US95-07289-9 (1-228,

QY	1993	GTCATCAACAGGATTTCCAACTTTATGCACGAATGGATGATCAAGGTAAATGGCG	2052
Db	1	ValTyrSerArgGyrThrThrThrTyrAspThrAsnGlyArgTyrSerValIysValArg	20
QY	2053	GCTCTGGGAGAGCTTAAACGACGCCAGCAGAGATGATACCCACAGAGTGGAGCACTG	2112
Db	21	AlaLeuGlyGlyValAlaSmAlaAlaAgaAgaGValIleProGlnGlnSerGlyAlaLeu	40
QY	2113	TGATATCCTGGCTGGATGTGATGATGTAATATACATGGAAATCCACAAAGCTGAATT	2172
Db	41	TyrIleProGlyIyrPrlIleGluAsnAspGluIleGlnIrrPAsnProProArgProGluIle	60
QY	2173	AATTAAGGATGATGTTCAACACACAAAGCAAGTGTGTTTCAGACGAACATCTCGGGAGGCTCA	2232
Db	61	AsnLysAspAspValGlnHisLysGlnValLysPheSerArgThrSerSerGlyLysSer	80
QY	2233	TTTGTGGCTTCGATGTGCCAAATGGTCCCAATCACTGATCTCTTCCCACTGGGCCAATC	2292
Db	81	PheAlaAlaSerAspAlaProAsnAlaProIleProAspLeuPheProIleGlyGlnIle	100
QY	2293	ACCGACCTGAAGCGGAAATTCACGGGGGCACTTCATTAAATCTGACTTGGACAGCTCT	2352

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Db 101 ThrAspLeuYsAlaGluIleHisGlySerLeuIleAsnLeuThrTrpHraLPro 120
Qy 2353 GGGGATGTTATGACCATGGAACACCTCACAAGTATATCATCTGCAATAGTCAAGTAT 2412
Db 121 GlyAspAspTyrAspHisGlyThrIleHisLysTyrIleIleArgIleSerThrSerIle 140
Qy 2413 CTGATGTCAGACAGACAGTCAATGAACTCTTCAAGTAAGTACTAGCTCTCATCCCA 2472
Db 141 LeuAspLeuArgAspLysPheAsnGlnSerLeuGlnValAsnThrThraIleuIlePro 160
Qy 2473 AAGGAGCCAACTCTGAGAGACCTCTTTGTTTAAACAGAAACATTACTTTGAAAT 2532
Db 161 LysGlnAlaAsnSerGlnGlnValPheLeuPheLysProGlnAsnIleThrPheGlnAsn 180
Qy 2553 GGCAAGATCTTTTCATTCCTTTCAGGCTGTGATTAAGTGCATGTAATCAACAATA 2592
Db 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGlnIle 200
Db 2593 TCACAACATTCGACAGATCTTTGTTTATCTCTCCACAGACTCCGCGACAGACACTAGT 2652
Db 201 SerAsnIleAlaArgValSerLeuPheIleProProGlnThrProProGlnThrProSer 220
Qy 2653 CCTGATGAACGCTGCTCTTGT 2676
Db 221 ProAspGlnThrSerAlaProCys 228

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RESULT 12

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US-09-193-562D-13
; Sequence 13, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 13
; LENGTH: 342
; TYPE: PRN
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
; -09-193-562D-13

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Alignment Scores:

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Pred. No.: 7.3e-75 Length: 342
Score: 947.50 Matches: 182
Percent Similarity: 72.06% Conservative: 45
Best Local Similarity: 57.78% Mismatches: 83
Query Match: 17.61% Indels: 5
DB: 4 Gaps: 4

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US-09-049-696-20 (1-2983) x US-09-193-562D-13 (1-342)

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Qy 46 GTGTTCACTTTCATCTTACACCTTGTAGAAGGGCCCTGAGTAATTCATCTACATTCAGCTG 105
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
Qy 106 AACACAATGCTATGAAGCATGTCTGTCGAATGCAGCCCAATGTCGACAGAGATGA 165
Db 27 IleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGlnAspGln 46
Qy 166 ACATCATTCACAATAAAGACATGGTACCGACGATCTCTGATCTGTGTAAGCT 225
Db 47 LysLeuIleGlnAsnIleLysGlnMetValThrGlnAlaSerThrTyrLeuPheHisAla 66
Qy 226 ACAGGAAGCGATTTATTTCAAAATGTGCATTTTGCATTCGAAACATGGAAGACA 285

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Db 67 ThrLysArgArgValTyrPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
Qy 286 AAGGCTGACTATGATGAGACCAAACTGAGACCTCAAAATGCGATGTTCTGGTCT 345
Db 87 LysSerGlnTyrPheIleProLysGlnGlnSerTyrAspGlnAlaValIleValAla 106
Qy 346 GAGTCTACTCCCGCAGTAATGATGAACTTCACTGACATGAGATGCGAAGTCTGAGAG 405
Db 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyArgCysGlyLeu 126
Qy 406 AAGGTGAAGAGATCCACCTCCTCCTGATTCATTCAGAGAAAAAGTTAGCTGAATAT 465
Db 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuThrAsnAsnPheHisIleTyr 146
Qy 466 GGACCAACAAGATGAGGCAATTCATGATGCGGCTCATAGTGGGAGTATTTAC 525
Db 147 GlySerArgGlyArgValPheValHisGlnTrpAlaHisLeuArgTyrPheLysAsp 166
Qy 526 GAGTACAATTAATGATGAGAAATTCATCTATCC---AATGGAAGATACAAAGCAGTAAGA 582
Db 167 GlnTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGlnAlaThrArg 186
Qy 583 TGTTCAAGCAGTATTACTGGTACAAATGTAGTA---AAGAAGTTCAGGAGCAGCTGT 639
Db 187 CysSerThrHisIleThrGlyIleAsnValAlaPheLysLysCysProGlyGlySerCys 206
Qy 640 TACACCAAAAGATGCACATTCATTAAGTACAGAGCTGTATGAAAAAGATGTAGTT 699
Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyrGlnAlaLysCysThrPhe 226
Qy 700 GTTCTCAATCCCGCCAGACGAGAGAGCTTCTATATGTTTGCACAACATGATGATCT 759
Db 227 LeuProLysLysSerGlnThrAlaLysGlnSerIleMetPheMetProSerLeuHisSer 246
Qy 760 ATAGTGAATTCGTGACAAACAACAACAACAAGAGCTCAACAAGCAAAATCA 819
Db 247 ValThrGlnPheCysThrGlnLysThrHisAsnThrGlnAlaProAsnLeuGlnAsnLys 266
Qy 820 AATGCAATTCGGAAGACATGGAAGTGAATCCGTGATTCGAGAGCTTTAAGAAAC 879
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheIleAsnThr 286
Qy 880 ACTCTATGACA-----ACACAGCCACCAAAATCCACCTTCTCATCTGAGATGGA 933
Db 287 SerProMetThrGlnMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
Qy 934 CAAGAATTCGTCTTGTAGTCTTGACAACAATCTGGAAGCATGGCG 978
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSer 321

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RESULT 13

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US-09-193-562D-3
; Sequence 3, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 3
; LENGTH: 203
; TYPE: PRN
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 associated protein from bovine endothelial cells
; -09-193-562D-3

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Alignment Scores:


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Db 708 ThrValLysAspAlaThrAlaAsnAspAlaAspLysLysValAlaThrValLysAspVal 727
QY 1330 GTTTGGGGCCCTGCGACACTCAGAACAGAGAGCTCCAAAATGCAGAGAGTTTA 1389
Db 728 AlaThrAlaIleAsnSerIleAlaThrPheValLysThrGluAsnLeuThrIleSerIle 747
QY 1390 CAGACATATGCTTCAGATCAATGAGCCCTCATGATGATGCTTTGGGGCCCTT 1449
Db 748 Asp-----GluAspAsnProThrAspAsnGlyLysAspAsp-----AlaLeu 761
QY 1450 TCATCAGAGAAAT-----GAGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGT 1497
Db 762 LysAlaGlyAspThrLeuThrPheLysAlaGlyLysAsnLeuLysValLysAspGly 781
QY 1498 AAGGATTAAACCTC-----CAGAACAGCCAGCTGATGAATGCGACAGTATCGTG 1548
Db 782 LysAsnIleThrPheAspLeuAlaLysAsnLeuGluValLysThrAlaLysValSerAsp 801
QY 1549 GACAGACCGGTGGGAAAGACACTTGTCTTATCAGCTGAGCAACAGCGCTCCCAA 1608
Db 802 ThrLeuThrIleGlyGlyAsnThr-----ProThrGlyGlyThrThrAlaThrProLys 819
QY 1609 ATC----- 1611
Db 820 ValAsnIleThrSerThrAlaAspGlyLeuAsnPheAlaLysGluThrAlaAspAlaSer 839
QY 1612 -----CTTCTGTGGATCCAGTGAGCAG 1635
Db 840 GlySerLysAsnValTyrLeuLysGlyIleAlaThrThrLeuThrGluProSerAlaGly 859
QY 1636 AAGCAAGGTGGCTTGTGA-----GTGACAAAACACCAAAATGGCCATCTCCCA 1686
Db 860 AlaLysSerSerHisValAspLeuAsnValAspAlaThrLysLysSerAsnAlaAspSer 879
QY 1687 ATCCAGGAGATGCTAAGAGTTGAGCTTGAATACAGTCTGCAAGCAAGCTCACAAACC 1746
Db 880 IleGluAspValLeuAlaGly-----TrpAsnIleGlnGlyAsnLysAsnAsn 896
QY 1747 TTGACCCCTGACTGTCAGCTCCCGTCCCAATGCTACC-----CTGCCT 1791
Db 897 ValAspTyrValAlaThrTyrAspThrValAsnPheThrAspAspSerThrGlyThrThr 916
QY 1792 CCAATTACAGTACTTCCAAAAGCAAGACACAGCAAAATTCGCCAGCCCTCTGGA 1851
Db 917 ThrValThrValThrGlnLysAlaAspGlyLysGly----- 928
QY 1852 GTTTATGCAAAATATTCGCCAAGAGCTCCCAATTCAGGGCAGTGTACAGGCTG 1911
Db 929 -----AlaAspValLysIleGlyAlaLys-----ThrSerVal 939
QY 1912 ATTGAATCAGTATGAGAAAACAGTTACC--TTGAACTACTGATTAATGAGACAGT 1968
Db 940 IleLysAspHisAsnGlyLysLeuPheThrGlyLysAspLeuLysAspAlaAsnAsnGly 959
QY 1969 GGTGATGCTACTAAGGATGAGCGT-----GTCTACTCAAGGTAT 2007
Db 960 AlaThrValSerGluAspAspGlyLysAspThrGlyThrGlyLeuValThrAlaLys-- 978
QY 2008 TTCACACTTATGACAGCAATGATATACAGTAAATGCGGAGCTCTGAGA----- 2061
Db 979 ---ThrValIleAspAlaValAsnLysSerGlyTrrPargValThrGlyGlnGlyAlaThr 997
QY 2062 -----GAGCTTAACGACGACGACGAGAGATATACCCAGAGAGT 2103
Db 998 AlaGluThrGlyAlaThrAlaValAsnAlaGlyAsnAlaGluThrValThrSerGlyThr 1017
QY 2104 GGAGACACTATACATACCTGGCTGGATGTGAGATGATGAATATCATGGAATCCACCACA 2163
Db 1018 SerValAsnPheLysAsnGly-----AsnAlaThrThrThr 1028
QY 2164 CCTGAATTAATATAGCAT-----GATGTT----- 2187

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Db 1029 AlaThrValSerLysAspAsnGlyAsnIleAsnValLysTyrAspValAsnValGlyAsp 1048
QY 2188 -----CAACACAGCAAGCTGTTCACAGACATCC-----TCG 2223
Db 1049 GlyLeuLysIleGlyAspAspLysLysIleValAlaAspThrThrLeuThrValThr 1068
QY 2224 GAGGCTCATTTGTG-----GCTTCGATGTCCCAATGCTCCATACCTGAT 2271
Db 1069 GlyGlyLysValSerValProAlaGlyAlaAsnSerValAsnAsn----- 1083
QY 2272 CTCTTCCACCTGGCCAAATCACGACCTGAAGCGGGAATTCACGGGGCAGTCTCAT 2331
Db 1084 -----AsnLysLysLeuValAsnAlaGluGlyLeuAlaThrAlaLeuAsn 1098
QY 2332 AATTCGACTTGACAGCTCTCGGATGATTTGACCATGCA 2373
Db 1099 AsnLeuSerTrrThrAlaLysAlaAspLysTyrAlaAspGly 1112

RESULT 15
US-08-409-995-4
; Sequence 4, Application US/08409995
; Patent No. 5646259
; GENERAL INFORMATION:
; APPLICANT: Barenkamp, Stephen I.
; APPLICANT: St. Geme III, Joseph W.
; TITLE OF INVENTION: Haemophilus Adhesion Proteins
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/409,995
; FILING DATE: 24-MAR-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin W.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-61053/RFT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1912 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; US-08-409-995-4

Alignment Scores:
Pred. No.: 0.000788 Length: 1912
Score: 141.50 Matches: 181
Percent Similarity: 31.95% Conserved: 128
Best Local Similarity: 18.72% Mismatches: 371
Query Match: 2.63% Indels: 288
DB: 1 Gaps: 44

US-09-049-696-20 (1-2983) x US-08-409-995-4 (1-1912)
QY 274 ACATGAGACAAAGCTGACTATGTGAGACCAAAATTGAGACCTACAAAAATGCTGAT 333
Db 428 SerTrrLysAlaLysAlaGlu-----AlaAsp 436

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QY 334 GTTCTGGTGTGCTACTCTCCAGTAATGATGACCCCTACACTGACGAGTGGC 393
DB 437 -----ThrAspGlyAlaLeuGluGlyIleSerLysAspGlnGluVal 450
QY 394 AACTGTGAGAGAAGGTTGAAGATCCACCTCCTATTTCATTGAGAGAAAAAG 453
DB 451 LysAlaGlyGlu-----ThrValThrPheLysAlaGlyLysAsn 463
QY 454 TTAGCTGAATATGAGCCACAGGTAGGGCATTTGCTCCATGAG----- 495
DB 464 Leu---LysValLysGlnAspGlyAlaAsnPheThrTyrSerLeuGlnAspAlaLeuThr 482
QY 496 ----TGGGCTATCTACAGTGGGATTTTGACAGATACATATGATGAAATTTCTAC 552
DB 483 GlyLeuThrSerIleThrLeuGlyGlyThrThrAsnGlyLysAsnAspAlaLysThrVal 502
QY 553 TTTATTC---AATGGAAGAAATACAGAGAGTAAGATGTTCCAGCAGTATTACTGGTACAAAT 609
DB 503 IleAsnLysAspGlyLeuThrIleThrProAlaGlyAsnGlyLysGlyThrThrGlyThrAsn 522
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DB 523 ThrIleSerValThrLysAspGlyIleLysAlaGlyAsnLysAlaIleThrAsnValAla 542
QY 670 ACAGGACTC-----TATGAAAAAGATGTGAGTTGTTCTCCAAATCCCGCCAGAGCGAG 723
DB 543 SerGlyLeuThrGlyAlaTyrAspAlaAsnPheAspValLeuAsnSerAlaThrAsp 562
QY 724 AAGGCTTCATATGTTTGACAAACATGTGATTCTATTGATTGAATTCGTACAGAACAA 783
DB 563 -----LeuAsnArgHisValGlnAspAlaTyrLysGlyLeuLeu----- 575
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DB 576 AsnLeuAsnGlnLysAsnAlaAsnLysGln----- 585
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DB 586 -----ProLeuValIleThrAspSerThr 592
QY 904 AATCCACCTTCATTCATTCGTCGAGATTGCAAAAGATTTGTGTGTAGTCCTTGACAAA 963
DB 593 AlaAlaThrValGlyLysPheLeu-----ArgLysLeuGlyTyrPalaValSerThrLys 609
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DB 610 AsnGly-----ThrLysGlnGlnSerAsnGlnValLysGlnAlaAspGlnVal--- 625
QY 1024 CTGCTGCACACAGTTGAGCTGGGGTCTCGGTTGGAGTGTGACATTGTGACAGTGTGCC 1083
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QY 1153 GCAGCAGCTTCAGAGGAGCGCTCAATCTGCAGCGGGCTCGATCGCATTTACTGTGATT 1212
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QY 1611 ----- 1611
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DB 842 SerLysAsnValTyrLeuLysGlyIleAlaThrThrLeuThrGluProSerAlaGlyAla 861
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QY 2167 GAATTAATTAAGAT-----GATGTT----- 2187
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Db 1071 GlyLysValSerValProAlaGlyAlaAsnSerValAsnAsn----- 1084
OY 2275 TTCCCACTGGCCAAATCACCAGCTGAAGCGAAATTCACGGGGGCGAGCTCATTAAT 2334
Db 1085 -----AsnLysLysLeuValAsnAlaGluGlyLeuAlaThrAlaLeuAsnAsn 1100
OY 2335 CTGACTTGACAGCTCTCGGGGATGATTATGACATGGAACGCTCACAGTATATC--- 2391
Db 1101 LeuSerTrpThrAlaLysAlaAspLysTyrAlaAspGlyGluSerGluGlyIuThrAsp 1120
OY 2392 -----ATTCAATTAAGT 2403
Db 1121 GluGluValLysAlaGlyAspLysValThrPheLysAlaGlyLysAsnLeuLysValLys 1140
OY 2404 ACAAGTATCTGATCTGACAGACACAAAGTTCAATGATCTTCACAGTGCAATCTACTGCT 2463
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OY 2601 TGCACAGATATCTTGTATTCTCTCCACAGACTCCGCCAGACACACCTAGTCTGATGA 2660
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OY 2661 AACGTCTGCTCTCTCTCAATATTCATATCAACAGACACCATTCCTGGCATTCACATTTT 2720
Db 1235 -----ThrGlnAspLysGluPheHisAlaAlaVal 1244
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OM nucleic - nucleic search, using sw model

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(without alignments)
6816.956 Million cell updates/sec

Title: US-09-049-696-19

Perfect score: 1683

Sequence: 1 AACCAAGTGTGTCATCATC.....AATGCTAACCACTGGGTA 1683

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued_Patents_NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1676.6	99.6	3007	US-09-193-562D-27	Sequence 27, Appl
2	790.8	47.0	878	US-08-469-667-8	Sequence 8, Appl
3	790.8	47.0	878	US-09-224-110-8	Sequence 8, Appl
4	790.8	47.0	878	PCT-US95-07289-8	Sequence 8, Appl
5	414.4	24.6	3317	US-09-193-562D-1	Sequence 1, Appl
6	398.8	23.7	3022	US-09-193-562D-33	Sequence 33, Appl
7	368.2	21.9	3418	US-09-193-562D-29	Sequence 29, Appl
8	300	17.8	2970	US-09-193-562D-31	Sequence 31, Appl
9	228.2	13.6	595	US-09-385-982-23	Sequence 23, Appl
10	221.4	13.2	595	US-09-385-982-25	Sequence 25, Appl
11	200.8	11.9	618	US-09-385-982-24	Sequence 24, Appl
12	183.4	10.9	611	US-09-385-982-27	Sequence 27, Appl
13	168.6	10.0	742	US-09-385-982-33	Sequence 33, Appl
14	95.4	5.7	335	US-09-193-562D-14	Sequence 14, Appl
15	41.4	2.5	7218	US-08-233-463-14	Sequence 14, Appl
16	36.6	2.2	2854	US-08-936-165A-66	Sequence 66, Appl
17	36.6	2.2	8700	US-08-392-625-16	Sequence 16, Appl
18	36.4	2.2	8700	US-08-466-961A-16	Sequence 16, Appl
19	36.4	2.2	8700	US-08-464-193B-18	Sequence 18, Appl
20	36	2.1	3158	US-08-464-517-36	Sequence 36, Appl
21	36	2.1	3158	US-08-246-361A-36	Sequence 36, Appl
22	36	2.1	3158	US-08-463-772-36	Sequence 36, Appl
23	35.6	2.1	4211	US-09-004-838-106	Sequence 106, App
24	35.2	2.1	3038	US-09-276-531-107	Sequence 107, App
25	34.8	2.1	805	US-08-118-469A-6	Sequence 6, Appl
26	34.8	2.1	805	US-08-909-119-6	Sequence 6, Appl
27	34.8	2.1	19124	US-08-487-826B-13	Sequence 13, Appl

28	34.6	2.1	5923	US-09-064-922-3	Sequence 3, Appl
29	33.8	2.0	1566	US-08-871-572B-2	Sequence 2, Appl
30	33.8	2.0	2255	US-08-871-572B-3	Sequence 3, Appl
31	33.6	2.0	3182	US-08-971-395-1	Sequence 1, Appl
32	33.6	2.0	3183	US-08-413-135-1	Sequence 1, Appl
33	33.6	2.0	4090	US-08-569-214-4	Sequence 4, Appl
34	33.6	2.0	4090	US-08-937-236-4	Sequence 4, Appl
35	33.6	2.0	4810	US-08-852-629-11	Sequence 11, Appl
36	33.2	2.0	2520	US-08-454-557C-50	Sequence 50, Appl
37	33.2	2.0	2520	US-08-340-426D-50	Sequence 50, Appl
38	33.2	2.0	2520	US-08-450-673C-50	Sequence 50, Appl
39	33.2	2.0	2520	PCT-US95-17111A-50	Sequence 50, Appl
40	33.2	2.0	3095	5231168-1	Patent No. 5231168
41	33.2	2.0	10684	US-08-618-100B-3	Sequence 3, Appl
42	33	2.0	1984	US-07-885-970A-25	Sequence 25, Appl
43	33	2.0	1985	US-08-298-687A-25	Sequence 25, Appl
44	33	2.0	1985	US-08-298-829-25	Sequence 25, Appl
45	33	2.0	2510	US-08-894-324A-2	Sequence 2, Appl

ALIGNMENTS

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RESULT 1
US-09-193-562D-27
; Sequence 27, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-193-562D-27

Query Match          99.6%; Score 1676.6; DB 4; Length 3007;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 AACCAAGTGTGTCATCATCCACACAGTCGCTTTGGGCGCTCTGACGCTCAAGACTAG 60
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OY 61 AGGAGCTGTCCAAATGACAGAGGTTTACACATATGCTTCAGATCAAGTTGAGAAC 120
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DB 1383 AGGAGCTGTCCAAATGACAGAGGTTTACACATATGCTTCAGATCAAGTTGAGAAC 1442

OY 121 ATGGCGCTATGATGCTTTTGGGCGCTTTGATCAGGAATGAGACTGCTCTGCGCT 180
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DB 1443 ATGGCGCTATGATGCTTTTGGGCGCTTTGATCAGGAATGAGACTGCTCTGCGCT 1502

OY 181 CCATCCAGCTGAGAGTAAAGGATTAACCTCCCAAGAGCAGCAGGATGATGACAG 240
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DB 1503 CCATCCAGCTGAGAGTAAAGGATTAACCTCCCAAGAGCAGCAGGATGATGACAG 1562

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OY 301 CTCGCCAATCTCTCTGCGGATCCAGTGACAGCAAGAGGCTTGTAGTGAGCA 360
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DB 1633 CTCGCCAATCTCTCTGCGGATCCAGTGACAGCAAGAGGCTTGTAGTGAGCA 1682

OY 361 AAAACACCAAAATGCGCTACCTCCAAATCCAGGATGCTAAGGTTGCACTTGAAT 420
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Q	y	481	CTACCCCTGCCCTCAATTCACAGTACTTCCAAAAAGCAACAGACACACAGCAATTCGCCA	540
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D	b	1863	GCCCTCTGTAGTTTATGCACAAATATTCGCCAAGAGCCCTCCCAATTTCTCAGGGCCAGT	1922
Q	y	601	TCACAGCCCTGATTTGAATTCAGTACGTATGAAAAACAGTTCCTTGGAACTACTGTGAATG	660
D	b	1923	TCACAGCCCTGATTTGAATTCAGTACGTATGAAAAACAGTTCCTTGGAACTACTGTGAATG	1982
Q	y	661	GAGCAGGTGCGTGAATGCTACAAAGATGAGCGGTCTACACAAAGTATTTCCAACTTATG	720
D	b	1983	GAGCAGGTGCTGATGCTACTACAAAGATGAGCGGTCTACACAAAGTATTTCCAACTTATG	2042
Q	y	721	ACACGAATGGTAGATACAGTGTAAAAGTGGGGCTCTGGAGAGAGTTAAACGACGCACAC	780
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Q	y	901	TGTTTTTCACAGACAATCCTCGGAGAGGCTCATTTTGCTTCTGTATGTCGCCAAATGCTC	960
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Q	y	1321	TTTCTCCACAGACTCGCCGACAGACACACTAGTCTGTATGAAACGTCGTGCTCTTCTCTA	1380
D	b	2643	TTTCTCCACAGACTCGCCGACAGACACACTAGTCTGTATGAAACGTCGTGCTCTTCTCTA	2702
Q	y	1381	ATATTCATATCACAGACACCATTCCTGGCATTCACATTTTAAATAATATATGAGAAATGGA	1440
D	b	2703	ATATTCATATCACAGACACCATTCCTGGCATTCACATTTTAAATAATATATGAGAAATGGA	2762
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Db	3003	GGA 3005	
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US-08-469-667-8			
Sequence 8, Application US/08469667			
Patent No. 5733748			
GENERAL INFORMATION:			
APPLICANT: Yu, Guo-Liang			
APPLICANT: Rosen, Craig			
TITLE OF INVENTION: Colon Specific Genes and Proteins			
NUMBER OF SEQUENCES: 24			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,			
ADDRESSEE: Stewart & Olstein			
STREET: 6 Becker Farm Road			
CITY: Roseland			
STATE: NJ			
COUNTRY: USA			
ZIP: 07068-1739			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/469,667			
FILING DATE: 06-JUN-1995			
CLASSIFICATION: 536			
ATTORNEY/AGENT INFORMATION:			
NAME: Ferraro, Gregory D.			
REGISTRATION NUMBER: 36,134			
REFERENCE/DOCKET NUMBER: 325800-435			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: 201-994-1744			
TELEFAX: 201-994-1744			
INFORMATION FOR SEQ ID NO: 8:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 878 base pairs			
TYPE: nucleic acid			
STRANDEDNESS: single			
TOPOLOGY: linear			
MOLECULE TYPE: cDNA			
FEATURE:			
NAME/KEY: CDS			
LOCATION: 2..685			
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Qy	752	GGCTTGGGAGAGTTAACGCGACGACGAGAGTGTATCCCGACGAGTGGAGCAT	811

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Db 241 ATTTGGCTTGTGATGTCCTCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 300
QY 992 CACCGACCTGAAGGGGAAATTCAGGGGGGAGCTCATATATGCACTTGGACGCTCC 1051
Db 301 CACCGACCTGAAGGGGAAATTCAGGGGGGAGCTCATATATGCACTTGGACGCTCC 360
QY 1052 TGGGATGATTTATGACATGAGAAAGCTCACAAGTATATCATTTGCAATTAAGTACAGTAT 1111
Db 361 TGGGATGATTTATGACATGAGAAAGCTCACAAGTATATCATTTGCAATTAAGTACAGTAT 420
QY 1112 TCTTATCTCAGACAGCAAGTCAATGATCTCTTCAAGTAACTACTGCTCTCATCC 1171
Db 421 TCTTATCTCAGACAGCAAGTCAATGATCTCTTCAAGTAACTACTGCTCTCATCC 480
QY 1172 AAAGGAGCACTCTGAGGAGAGTCTTTTGTAAACCAAAACATTAATCTTTTGAATA 1231
Db 481 AAAGGAGCACTCTGAGGAGAGTCTTTTGTAAACCAAAACATTAATCTTTTGAATA 540
QY 1232 TGGCAGAGATCTTTTCATTTGATTCAGGCTGTTGTAAGTGTGATCTGAAATTCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCATTTGATTCAGGCTGTTGTAAGTGTGATCTGAAATTCAGAAAT 600
QY 1292 ATCCAACTATGACAGAGATATCTTTGTTATTCCTCCAGAGCTCCGCGACAGACACTAG 1351
Db 601 ATCCAACTATGACAGAGATATCTTTGTTTATTCCTCCAGAGCTCCGCGACAGACACTAG 660
QY 1352 TCCCTGATGAAAGCTGCTGCTCTTGT-CCTAATATCATTTCAAGCAAGCACTTCCCTGGA 1410
Db 661 TCCCTGATGAAAGCTGCTGCTCTTGT-CCTAATATCATTTCAAGCAAGCACTTCCCTGGA 720
QY 1411 TTCACATTTTAAATTAATATGAGAGTGTGAGAGAACTGAGAGTGTCAATAGCTTAG 1470
Db 721 TTCACATTTTAAATTAATATGAGAGTGTGAGAGAACTGAGAGTGTCAATAGCTTAG 780
QY 1471 GCTGAATTTTGTCAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1528
Db 781 GCTGAATTTTGTGTGGGTGAAT-AAATATATTAATTAATTAATTAATTAATTAATTA 837

RESULT 3
US-09-224-110-8
; Sequence 8, Application US/09224110
; Patent No. 6337195
; GENERAL INFORMATION:
; APPLICANT: YU, Guo-Liang
; APPLICANT: ROSEN, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/224,110
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/469,667
;; FILING DATE: 06-JUN-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Ferraro, Gregory D.
;; REGISTRATION NUMBER: 36,134
;; REFERENCE/DOCKET NUMBER: 325800-435
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 201-994-1700
;; TELEFAX: 201-994-1744
;; INFORMATION FOR SEQ ID NO: 8:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 878 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 2..685
;; US-09-224-110-8

Query Match 47.0%; Score 790.8; DB 4; Length 878;
Best Local Similarity 97.9%; Pred. No. 2.2e-230;
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGTCTACTCAAGGTATTTTCAACACTTATGACAGCAAGTGTAGATACAGTAAAGTCG 751
Db 1 TGTCTACTCAAGGTATTTTCAACACTTATGACAGCAAGTGTAGATACAGTAAAGTCG 60
QY 752 GGCTCTGGGAGGATTAAACGACGACGAGAGTATACCCAGCAGAGTGAGCACT 811
Db 61 GGCTCTGGGAGGATTAAACGACGACGAGAGTATACCCAGCAGAGTGAGCACT 120
QY 812 GTACATACCTGGCTGGATTTGAGATGATGAATTAACATGGAATCCAGCAAGCTGAAT 871
Db 121 GTACATACCTGGCTGGATTTGAGATGATGAATTAACATGGAATCCAGCAAGCTGAAT 180
QY 872 TAATAAGATGATGTTTCAACACAGCAAGTGTGTTTACAGACACATCTCCGGAGGCTC 931
Db 181 TAATAAGATGATGTTTCAACACAGCAAGTGTGTTTACAGACACATCTCCGGAGGCTC 240
QY 932 ATTTGGCTTGTGATGTCCTCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 991
Db 241 ATTTGGCTTGTGATGTCCTCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 300
QY 992 CACCGACCTGAAGGGGAAATTCAGGGGGGAGCTCATATATGCACTTGGACGCTCC 1051
Db 301 CACCGACCTGAAGGGGAAATTCAGGGGGGAGCTCATATATGCACTTGGACGCTCC 360
QY 1052 TGGGATGATTTATGACATGAGAAAGCTCACAAGTATATCATTTGCAATTAAGTACAGTAT 1111
Db 361 TGGGATGATTTATGACATGAGAAAGCTCACAAGTATATCATTTGCAATTAAGTACAGTAT 420
QY 1112 TCTTATCTCAGACAGCAAGTCAATGATCTCTTCAAGTAACTACTGCTCTCATCC 1171
Db 421 TCTTATCTCAGACAGCAAGTCAATGATCTCTTCAAGTAACTACTGCTCTCATCC 480
QY 1172 AAAGGAGCACTCTGAGGAGAGTCTTTTGTAAACCAAAACATTAATCTTTTGAATA 1231
Db 481 AAAGGAGCACTCTGAGGAGAGTCTTTTGTAAACCAAAACATTAATCTTTTGAATA 540
QY 1232 TGGCAGAGATCTTTTCATTTGATTCAGGCTGTTGTAAGTGTGATCTGAAATTCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCATTTGATTCAGGCTGTTGTAAGTGTGATCTGAAATTCAGAAAT 600
QY 1292 ATCCAACTATGACAGAGATATCTTTGTTATTCCTCCAGAGCTCCGCGACAGACACTAG 1351
Db 601 ATCCAACTATGACAGAGATATCTTTGTTTATTCCTCCAGAGCTCCGCGACAGACACTAG 660

QY 872 TAATAAGATGATGTTCACACAGCAAGAACTGTGTTTCCACAGAAACTCCTGGGAGGC 931

Dd 181 TATATAAGATGATGTTCACACAGCAAGAACTGTGTTTCCACAGAAACTCCTGGGAGGC 240

QY 932 ATTGTGGCTTGATGTGCCAATGCTCCCATCTGATCTCTTCCACTGGCCAAT 991

Dd 241 ATTTGGCTTGATGTGCCAATGCTCCCATCTGATCTCTTCCACTGGCCAAT 300

QY 992 CACCAGCTGAAGCGGAAATTACGGGGGAGCTCATTAATCTGACTTGGACAGCTCC 1051

Dd 301 CACCAGCTGAAGCGGAAATTCACGGGGGAGCTCATTAATCTGACTTGGACAGCTCC 360

QY 1052 TGGGGTGATTPAGAACCATGSAAGAGCTCACAAAGTATTCATTCGAATPAGTACAAGTAT 1111

Dd 361 TGGGGTGATTPAGAACCATGSAAGAGCTCACAAAGTATTCATTCGAATPAGTACAAGTAT 420

QY 1112 TCTGTATCTCAGAGACAAAGTTCATGTAATCTCTTCAAGTAATACTACTGCTCTCATCCC 1171

Dd 421 TCTGTATCTCAGAGACAAAGTTCATGTAATCTCTTCAAGTAATACTACTGCTCTCATCCC 480

QY 1172 AAAGGAGCAAACCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTACTTTGAAAA 1231

Dd 481 AAAGGAGCAAACCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTACTTTGAAAA 540

QY 1232 TGGCAGAGCTTTTTCATGCTATTCAGGCTGTGTAAGTGTCGATCTGAATTCAGAAT 1291

Dd 541 TGGCAGAGCTTTTTCATGCTATTCAGGCTGTGTAAGTGTCGATCTGAATTCAGAAT 600

QY 1292 ATCCAAACATGACAGAGATCTTGTGTTTATCTCCACAGACTCCGCCAGAGACACTAG 1351

Dd 601 ATCCAAACATGACAGAGATCTTGTGTTTATCTCCACAGACTCCGCCAGAGACACTAG 660

QY 1352 TCCCTGATGAACGCTGCTGCTCTTGT- CCTAATATTCATATCAACAGACCACTTCTGGCA 1410

Dd 661 TCCCTGATGAACGCTGCTGCTCTTGTGCTTATTCATATCAACAGACCACTTCTGGCA 720

QY 1411 TTCACATTTTAAAATTTATGTGAAGTGAATPAGGAACTGGACGCTGCAATAGCCTAG 1470

Dd 721 TTCACATTTTAAAATTTATGTGAAGTGAAGTGAAGAGACTGCAATAGCCTAG 780

QY 1471 GCTGAATTTTGTCAGATTAATAATAATCATTCATCTTTTTTGTGATTATAAA 1538

Dd 781 GGTGAATTTTGTGCGGTGAAT-AAATAATSATTTCCANCCCTTTTTTGTGTTATAAA 837

RESULT 5
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict u.
; TITLE OF INVENTION: Nucleotide Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; protein from bovine endothelial cells
US-09-193-562D-1

Query Match 24.6%; Score 414.4; DB 4; Length 3317;
Best Local Similarity 59.6%; Pred. No. 1e-115;
Matches 804; Conservative 0; Mismatches 516; Indels 30; Gaps 5;

Oy 1 AACAAAGTGGTCCATCATCCACAGTCCGTTGGGGCCCTGCTGAGCTCAAGACTAG 60
 Db 1351 AACGAAAGTGGTCCATCATCCACAGTCCGTTGGGGCCCTGCTGAGCTCAAGACTAG 1410
 Oy 61 AGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCTTCAGTCAAGTTCAGACAA 120
 Db 1411 AGACATTTGCAAAATATGACAGAGGATATC-----GTTTCTTTCATTAAGACATTA 1464
 Oy 121 ATGGCTCATGATGCTTTTGGGGCCCTTTCATCAGAAAGTGGTCTGCTGAGCT 180
 Db 1465 CTGGCTTCTAATGCTTCTTCAATTTCAATGAGTGGAGACATCTGCTGAGCAG 1524
 Oy 181 CCATCCAGCTTGAAGTAAAGGATTAACCTCCAGAACAGCCAGTGAATGGCAGCAG 240
 Db 1525 CTATTCAGTTGGAAGCAAGCCTTGAAATATACAGGAAGAAAGATTAAGGCGCAGC 1584
 Oy 241 TGATGCTGACAGCACCGTGGGAAAGACATTTGTTTCTTATCACCTGAGACAGCAGC 300
 Db 1585 TGCCCTGAGACGTACAGTGGAAATGACACTTCTTGTGTGTCACATGGACAAATACAA 1644
 Oy 301 CTCCCAATCTCTCTGAGTCCAGTGGACAGAGA-----AGGTGGCTTTG 351
 Db 1645 AACCGAAATTTCTTCCAGATCCAAAGAAAGAAATATATAAACCCTGGATTTCAAG 1704
 Oy 352 TAGTGACAAAAACACAAATGGCTACCTCCAAATCCAGCAGATTTGCTAAGTTGCA 411
 Db 1705 AAGATAAGTTAAATTTGATGCTGCTGCTCAAAATACCTGATTTGAGAGACAGTA 1764
 Oy 412 CTGGAAATACAGTGC-----AAGCAGCTCACAAACCTTGACCTGACTGTCA 462
 Db 1765 CTGGACATACAGCTTCAATTAATCATGCGCCTCAAAATGCTAAGTACAGTACAGTGA 1824
 Oy 463 CGTCCGCGCTGCAATGTCACCTGCTCCAAATACAGTACGCTTCCAAAGAACAGCAG 522
 Db 1825 CCAGCTGAGCAAGAGTCTTACTATTAACCCAGATTTGCAACACCTGCTGCTGCTCAAC 1884
 Oy 523 ACACCAGAAATTTCCCAAGCCCTGATTTATGCAAAATTTGCGCAAGAGCCTGCC 582
 Db 1885 ATACAGCAATTTATCTGATCCCAATGATTTGATGCAACATCTGCTGAGGTTTTCG 1944
 Oy 583 CAATTTCTAGGGCAGTGTACAGCCCTGATTTGAATCAGTGAATGAAAGAACAGTTACCT 642
 Db 1945 CTGATCTGGAGATCAGTGAATATGACCATTTATGAAACCAAGATGACATCAAGTAACAT 2004
 Oy 643 TGGAACTACTGATATGAGAGAGTGTGATGCTACTAATGATGACGTGTCTACTCA 702
 Db 2005 TGGAGCTCTGGCAATGCTGAGTGTGATGCTCAAGATGATGCTACTACTCA 2064
 Oy 703 GGTATTTCACTATATGACAGATGATGATGATGATGATGATGATGATGATGATGATG 762
 Db 2065 GATACTTTACAGATTTACTATGAAATGATGATGATGATGATGATGATGATGATGATG 2124
 Oy 763 GAGTTAACGACAGCAGAGGAGTATATCCACAGAGTGGAGCAGTACTGATACCTG 822
 Db 2125 GAAACAAACAGGCTAGGCTAAATTTAAGACACACAGAAACAAAGTTTATATGTTCCAG 2184
 Oy 823 GCTGATTTGAGATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 882
 Db 2185 GCTAGCTTGAAGAGGTAATATATGATGATGATGATGATGATGATGATGATGATGATG 2244
 Oy 883 ATGTTCAACACAGAGAGTGTGTTGAGAGAGATGCTGAGAGAGTATTTGAGGCT 942
 Db 2245 TGGCAAAAGCTAAATATGAGAGCTTACAGACATACCTCTGAGAGGCTATTTACTGAT 2304
 Oy 943 CTGATGCTCCAAATGCTCCCA--TACCTGATCTCTCCACCTGAGCAATCACGAGC 999
 Db 2305 CAGGAGCTCTCTCTCTGTTATACCTCTGTTCTCCACCTGATTAATATACAGATC 2364
 Oy 1000 TGAAGCGGAATTTACAGGGGCGCATCTCATTAATCTGATGAGAGTCTCTGGGATG 1059
 Db 2365 TTGAGGCTTAAGTTCAAGAG--ATTATATTTCACTTTCAAGAGCGCCCTGGCAAG 2421
 Oy 1060 ATTATGACCATGAGACAGCTCAAGTATATCATTCGAATAGTATTAAGTATTTGATC 1119

Db 2422 TCTAGATTAAGGAAAGCAACACACTACATTAAGATTAAGTAAAGTTCATGATC 2481
 Oy 1120 TCAGAGACAGTTCATGATATCTCTCAAGTAAATACATCTCTCTCTCCAAAGAG 1179
 Db 2482 GTCAAGAGATTTTACATAGGAGTGTAGTAAATACATCTCTCTCTCTCTCTCTCT 2541
 Oy 1180 CCACTCTGAGAGTCTTTTGTAAACGAAATACATCTCTCTCTCTCTCTCTCTCTCT 1239
 Db 2542 CCGGATCAAAAGAAATTTTGAATTTAAAGCCGAAACATTTTGAATAGAAATGGCACA 2601
 Oy 1240 ATCTTTCAATGCTATTCAGGCTGTTGATTAAGTGTATGAAATCAGAAATATCAACA 1299
 Db 2602 AATCTATATTTCACTCCAGCATCAAGAAAGCAATCTCATCTCAGAGGTTCTCACA 2661
 Oy 1300 TTGACAGATATCTTTGTTATCTCTCAC 1329
 Db 2662 TTGTACAAAGCATCAAAATTTATCTCTCAC 2691

RESULT 6
 US-09-193-562D-33
 ; Sequence 33, Application US/09193562D
 ; Patent No. 6309857
 ; GENERAL INFORMATION:
 ; APPLICANT: Pauli, Benedict U.
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 ; FILE REFERENCE: 18617.0052
 ; CURRENT APPLICATION NUMBER: US/09/193.562D
 ; PRIOR FILING DATE: 1998-11-17
 ; PRIOR APPLICATION NUMBER: US/60/065.922
 ; NUMBER OF SEQ ID NOS: 47
 ; SEQ ID NO 33
 ; LENGTH: 3022
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-09-193-562D-33

Query Match 23.7%; Score 398.8; DB 4; Length 3022;
 Best Local Similarity 59.4%; Pred. No. 5.3e-111;
 Matches 796; Conservative 0; Mismatches 517; Indels 27; Gaps 6;

Oy 6 ACTGTCGCATATATCACACAGTCCCTTTGGGCCCCCTGCACTCAAGAACTAAGAGAG 65
 Db 1308 AGCGGTGCATCATATCACACATCTGCTGCGGCTTGCCTCCGAACTGAGACT 1367
 Oy 66 CTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACAATG 125
 Db 1368 CTGTGACATGACAGAGGCTTGTCTTATGCAACAAAGACT-----AACAGC 1421
 Oy 126 CTGATGATGCTTTTGGGCCCCCTTTCATCAGAAATGAGAGTGTCTCAGGCTTCATC 185
 Db 1422 CTATGATGCTTTTCAATGATGATGATGATGATGATGATGATGATGATGATGATG 1481
 Oy 186 CAGCTTGAAGATTAAGGATTAACCTCCAGAAACAGCAGTGTATTAATGAGCAGTGTATC 245
 Db 1482 CAGTTGGAGAGCAAGCCCTTCATGTCAGAGCAGGAGGATTAAGGATTAACACTACT 1541
 Oy 246 GTGAGACAGCAGTGGGAAAGACACTTGTCTTATCAGTGAACAAGCAGGCTCC 305
 Db 1542 CTGGACATGCTGCGGACAGCAGCTTCTTTTATCAGCTGATGATGATTAAGAGCA 1601
 Oy 306 CAAATCTCTCTGAGATCCAGTGGACAGAGA-----AGTGGCTTTGTAAGT 356
 Db 1602 GAATCATTTCTTCAAGATCCAAAGAAATTAATATACACTGATTTCCAAAGATAT 1661
 Oy 357 GACAAAAACCAAAATGAGCTACTCTCAATCCAGCAGATTTGCTAAGTGTGGCCTGG 416
 Db 1662 AAATCAATCTCGGTGCTGATGATGATGATGATGATGATGATGATGATGATGATG 1721
 Oy 417 AAATACAG--TCTGCAAGCAAGTCAACAACTTGATGATGATGATGATGATGATGATG 473

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Db 1722 ACTTACAGCTACACGGGTACACAGTCTCAGTTGATTAACATGACATGACACTGACGA 1781
Oy 474 TCCCATGCTACCTGCTCCCATTTACAGTACTTCCAAAACGACAGACACCAAA 533
Db 1782 AGAAGTCCACCATGAGACACTCTGGGCTACTGCTACATGATGAGACAGCCAG 1841
Oy 534 TTTCCGAGCCCTGCTGAGTTTATGCAAAATATCCGCAAGGAGCCCTCCCAATCTCAG 593
Db 1842 TACCTGAGCCGAGTATGTTGATGACAGGAGTACGCAAGAGATTTTTCCTGTTGGGA 1901
Oy 594 GCCAGTGTACAGCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 653
Db 1902 GCCAATGTACAGCCCTCATAGAGCTGAAATGATGATGATGATGATGATGATGATGAT 1961
Oy 654 GATATGAGACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 713
Db 1962 GACAAATGGGCGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 2021
Oy 714 ACTTATGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 773
Db 2022 GATTTATCATGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2081
Oy 774 GCCAGAGGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 833
Db 2082 ACCAGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2138
Oy 834 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 893
Db 2139 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2198
Oy 894 AAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 950
Db 2199 AAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2258
Oy 951 CCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1010
Db 2259 CCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2318
Oy 1011 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1070
Db 2319 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2375
Oy 1071 GGAACAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1130
Db 2376 GGAACAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2435
Oy 1131 TTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1190
Db 2436 TTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2495
Oy 1191 GAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1250
Db 2496 GAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2555
Oy 1251 GCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1310
Db 2556 GCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2615
Oy 1311 TCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1370
Db 2616 GTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2675

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RESULT 7
US-09-193-562D-29
: Sequence 29, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052

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: CURRENT APPLICATION NUMBER: US/09/193, 562D
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065, 922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 29
: LENGTH: 3418
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-193-562D-29

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Query Match 21.9%; Score 368.2; DB 4; Length 3418;
Best Local Similarity 59.1%; Pred. No. 1.1e-101;
Matches 735; Conservative 0; Mismatches 478; Indels 30; Gaps 5;

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Oy 115 AGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 174
Db 1469 ACATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1528
Oy 175 AGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 234
Db 1529 AGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1588
Oy 235 GCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 294
Db 1589 GCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1648
Oy 295 GCGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 345
Db 1649 TACAAAGCAGCAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1708
Oy 346 GCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 405
Db 1709 TTTCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1768
Oy 406 TTGGCAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 456
Db 1769 CAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1828
Oy 457 CTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 516
Db 1829 CANTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1888
Oy 517 ACAAGACAGCAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 576
Db 1889 GTCAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1948
Oy 577 CTTCCCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 636
Db 1949 TTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2008
Oy 637 TTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 696
Db 2009 TAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2068
Oy 697 ACTCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 756
Db 2069 ACTCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2128
Oy 757 TGGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 816
Db 2129 AGCGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2182
Oy 817 TACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 876
Db 2183 TACCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2242
Oy 877 AGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 936
Db 2243 ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2302
Oy 937 TGGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 993

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Db	2303	CTGANTAGGAGTGCCTCTCTTAATGTAATCATCTTCAGGTGTTCTACCTGGTAAATATG	2352
Qy	994	CCGACCTGAAGGCGGAATTTACGSGGGGAGTCTCATTAATCTGACTTGGACAGCTCTG	10533
Db	2363	TAGACCTCGAGGCTAAGTTTCAAGSAG---ATCATATTCACTTTCATGGAGCTGCCCTG	2419
Qy	1054	GGGTGATTTATGACCTGGAACAGCTCACAGATATATCTTGGATTAAGTACAGATATTC	11133
Db	2420	GCAAGGCTCTCGATTAAGGAGAGCTGAGAAGCTACTTTTAAGAATAAGTAAACATTTC	2479
Qy	1114	TTGATCTCAGAGCAAGTTCAATGATCTCTTCAAGTAACTCTGCTCTCATCCCA	1173
Db	2480	TGGACCTCCAGAGAGATTTTGATTAAGAGCTTTATATAATCTTGTGCTGATCCCTA	2539
Qy	1174	AGGAGGCAACTCTGAGAGAGCTTTTGTTTAAACACAGAAACATCTACTTTGAAATG	12333
Db	2540	AGGAGCCTGGTTTCAGTAGAAAGTTTGAAATTTAAACAGAACCTCTTAAATAGAGATG	2539
Qy	1234	GCACAGATCTTTTCATTGCTTATTCAGGCTGTTGATPAAGTCGATCTGAAATCAGAAATAT	12933
Db	2600	GTACGACATTTCTPAATTTGCATATCAAGCCATCATGTAACCAATGTCACTCAGAGGTTT	2659
Qy	1294	CCAAATATTCAGCAGATCTTTTGTATTCTCTCCACAGACTCC	1336
Db	2660	CAAACTATTCGACAGCAACTTAACCTTATTTCTCCACAGCAATCC	2702

```

RESULT 8
US-09-193-562D-31
: Sequence 31, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193,562D
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 31
: LENGTH: 2970
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-193-562D-31

```

Query Match	17.88;	Score 300;	DB 4;	Length 2970;
Best Local Similarity	55.58;	Pred. No. 5.4e-81;		
Matches 692; Conservative	0;	Mismatches 530;	Indels 24;	Gaps 5;

QY	6	AGTGGTCACATACATCCACACAGACGCGTGTGGGGCCCTCGACGCTCAAGAACTAGAGAG	65
Db	1414	AGTGGTTCACAAATATCATCTCCATTTGCCCAGGGGTATATGCGACGCCCAAAATCTGGAGAA	1473
QY	66	CTGTCCAAATGACAGAGAGGTTTACAGACATATGCTTCGATCATCAAGTTCAAGACAATGAC	125
Db	1474	TTATCAGCTTTACAGAGAGGTTTAAAGTCTTTGTTCCAGATATATTCAAACTCCAAATAGC	1533
QY	126	CTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGAGCGTGTCTCAGCGCTCCATC	185
Db	1534	ATGATTCATGCTTTTCAGTAGAATTTTCCCTCGGAACGTGAGACATTTTCCAGCAACATATTT	1593
QY	186	CAGCTTAGAGATGAAGGATTAACCTTCGCAAGACAGCAGATGAATAGGCACAGTATGC	245
Db	1594	CAGGTTTAAAGTACAGGTGAAATGTGCAAACTCCACCAATTAATTAATAAACAACAGTGACT	1653
QY	246	GTCGACAGCAGCCGTGGGAAGAGACACTTTTGTCTTATCACTCG---GACACAAGGAGCCT	302
Db	1654	GTCGATTAATACGTGGGCAACGACACTATGTTTCTTAGTTACGTGGCAGGCCAAGTGGTCTT	1713
QY	303	CCCCAAATCTTCTCTGGGATCCCACTGGACAGAAACA-----AGGTGGCTTTGTATGTG	356

Db	1714	CCTGAGATTATATTATTGATCCTGATGAGACGAAATTA	CTACACCAATATATTTATACAC	1773
Qy	357	GACAAAAACACCAAAATGGCCATCTCCAAATCCAGGACTT	GTAAGTTGGCACCTTGG	416
Db	1774	AATCTAACTTTTGGACAGCTAGCTTTTGATTCCAGGAAC	AGATAGCTTGGGACATGG	1833
Qy	417	AAATACAGCTGCAAGCAAGCTCA-----CAAACTTGACC	TCAGCTCACGTCC	467
Db	1834	ACTTACACCCCTGAAACAATTAACCATTCATCTCTGCAAG	CCCTGAAAGTGCACGTGCCTCT	1893
Qy	468	CGTGGTCCAAATGCTACCGCCCTCCAAATTAAGTCACTTC	CAAAAACGAACAAGACAC	527
Db	1894	CGCGCTCCAACTCAGCTGTGCCCCAGCCAGCTGTGAAAC	CTTGTGTGAAAGAGACAGC	1953
Qy	528	AGCAAAATCCCCACCCCTCTGATAGTTATATGCAAAATTC	GGCCAGAGACCTCCCAATT	587
Db	1954	CTCCATTTTCCCTCATCTCTGATGATTTATGCGAAATGT	CAAAACAGGAGATTTATCCATT	2013
Qy	588	CTCAGGCGCCAGTGTACAGCCCTGATTTGAATCACTGAAT	GAAAAAACAAGTACCTTGGAA	647
Db	2014	CTTATGCGACTGTCACTGCGACAGTTGACCGAGACATG	AGATTCCTGTACGTGAGAA	2073
Qy	648	CTACTGAGTATATGAGACAGGTGCTGATGCTACTAAGAT	AGAGGTGTCTACTACAGATAT	707
Db	2074	CTCCTTGATGTATGGAGAGAGGTGCTGATGTTATAAAAA	ATGATGGAATTTACTCTCGAGGAT	2133
Qy	708	TTCAACAATTATATGACAGATGGATGATACAGTGTAAAG	TGCGGGCTCTGGAGAGATTT	767
Db	2134	TTTTTCTCTCTTTGCTGCAAAATGGTAGATTAAGCTTAA	AGATGTCAATGCATCACCTCTCC	2193
Qy	768	AACGACGCGACAGCAGAGATGATACCCACAGAGTGGAG	ACCTGTACATCTGGCTGG	827
Db	2194	AGCATTAAGCACCCAGCCCACTGATTTCCAGGAGATCAT	GTATGATATACCAAGTTAC	2253
Qy	828	ATTGAGATGATGAATATCAATGGAATCCACCAAGACCT	GAAATTAATTAAGATATGTT	887
Db	2254	ACAGCAAAACGGTATTAATTCAGATGAATGCTCAAGGA	AAATCATGATGCGAAATGAGAG	2313
Qy	888	CAACACAGCAAGATGTCTTTCACAGACAACCTCGGAGG	CGTCAATTTGTGGCTCTGTAT	947
Db	2314	GAGCGAAG---TGGGGCTTTAGCCGAGTCAGTCAAGAG	GGCTCTCTTTTCAGTGCTGGGA	2370
Qy	948	GTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCC	CAATACCGACGCTGAAGGCG	1007
Db	2371	GTTCAGAGCTGGCCCCACCCCTGATGATGTTCCACAT	GCAAAATTAATGACCTGGAACT	2430
Qy	1008	GAAATTCACGGGGCACTCTCATTTATCTGACTTGGACA	CGCTCTGGGGATGATTAATAC	1067
Db	2431	GTA---AAGTAGAAGAGGAATGACCCCTATCTTGGAC	AGACACTGGAGAAACACTTTAT	2487
Qy	1068	CATGGAACAGCTCAGTATATTCATTCGAAATGAGTACA	AGATATTCCTGATCTCGAGAC	1127
Db	2488	CAGGGCCAGGCTACACCTATGAATTAAGATAGATGAAG	ATGATCTACAGATATTCACAAAT	2547
Qy	1128	AAGTTTCATGATATCTTCAAGTGAATACACTGCTCATC	CCCAAGAGAACCCAACTCT	1187
Db	2548	GACTTTAAACATGCTATTTTAGTAATATACATCAAGAC	GAAATCTCAGCAAGCTGCGATC	2607
Qy	1188	GAGGAAGCTTTTGTGTTAAACAGAAACATTTACTTTG	AAAAATG	1233
Db	2608	AGGGAGATATTTACGTTCTCACCCAGATTTCCACCAAT	TGAGACCTGG	2653

RESULT 9
US-09-385-982-23
; Sequence 23, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: EMDGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982


```
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(618)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-24
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Query Match 11.9%; Score 200.8; DB 4; Length 618;
Best Local Similarity 69.5%; Pred. No. 2,9e-51;
Matches 303; Conservative 0; Mismatches 127; Indels 6; Gaps 2;
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Qy 951 CCAATGCTCCATACCTGATCTCTCCACCCTGGCCAAATCACCAGCTGAAGCGGAA 1010
    || || || || || || || || || || || || || || || || || || || ||
Db 516 CCAAGCCTCCCTGCTGACCAATACCCCAAGTCAAAATCACAGACCTGATGCCACA 457
    || || || || || || || || || || || || || || || || || || || ||
Qy 1011 ATTCAGGGGCGAGCTCATTATCTGACTGGACAGCTCCGGGATGATTATGACAT 1070
    || || || || || || || || || || || || || || || || || || || ||
Db 456 GTTCATGAGG---ATTAATATTATTTTACATGACAGACAGCCAGGATATTTATGTT 400
    || || || || || || || || || || || || || || || || || || || ||
Qy 1071 GGAACAGCTCAAGATATATCATTCGATAAGTACAAATATCTGATCTGAGACAAAG 1130
    || || || || || || || || || || || || || || || || || || || ||
Db 399 GGAAGAGTTCAAGCTTATATCATAGATAGATAGTGAAGTATCTGATCTGAGACAGT 340
    || || || || || || || || || || || || || || || || || || || ||
Qy 1131 TTCAATGATCTCTTCAGTGAATCTACTGCTCATCCCAAGAGGACCACTGTGAG 1190
    || || || || || || || || || || || || || || || || || || || ||
Db 339 TTGATGATGCTCTTCAAGTAAATCTACTGATCTGACCAAGAGGAGCCAACTCCAG 280
    || || || || || || || || || || || || || || || || || || || ||
Qy 1191 GAAGCTTTTGTAAACAGAAATCATTTCTTTGAATAGGACAGATCTTTTCAAT 1250
    || || || || || || || || || || || || || || || || || || || ||
Db 279 GAAAGCTTTGATTTAAACCGAATAATATCTCAGAAAGAAATGACACCACTATTTAT 220
    || || || || || || || || || || || || || || || || || || || ||
Qy 1251 GCTATTCAGGCTGTGATAGGCTGATCTGAATCAGAAATATCCAAATTCACAGAGA 1310
    || || || || || || || || || || || || || || || || || || || ||
Db 219 GCCATTAAAGATATGATGATAAGCAATTTGACATCAAAAGTATCCAAATTCACAGA 160
    || || || || || || || || || || || || || || || || || || || ||
Qy 1311 TCTTTGTTATCTCTCCACAGACTCCGCCAGAGA---CAGCTAGTCTGATGAACGCT 1367
    || || || || || || || || || || || || || || || || || || || ||
Db 159 ACTTTGTTATCCCTCAAGCAAAATCCTGATGACATTGATCCTACACTACTCTCT 100
    || || || || || || || || || || || || || || || || || || || ||
Qy 1368 GCTCCTTGCTTAATA 1383
    || || || || || || || || || || || || || || || || || || || ||
Db 99 ACTCCTACTCCTGATA 84
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RESULT 12
US-09-385-982-27
; Sequence 27, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CDDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 27
; LENGTH: 611
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(611)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-27
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Query Match 10.9%; Score 183.4; DB 4; Length 611;
Best Local Similarity 68.0%; Pred. No. 5,6e-46;
Matches 300; Conservative 0; Mismatches 136; Indels 5; Gaps 3;
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Qy 582 CCAATTCAGGGCCAGTGTACAGCCCTGATGATGATAGTGAAT-GGAAAAACGATTAC 640
    || || || || || || || || || || || || || || || || || || || ||
Db 2 CCGTGTCTTGAGCAAGTGTGCTCTTCAATGATCAAGAAATGGACATACAGAACT 61
    || || || || || || || || || || || || || || || || || || || ||
Qy 641 CTGGAATCTAGTGAATGAGCAGTGTGATCTCTAAGATGACGCTGTCTACTC 700
    || || || || || || || || || || || || || || || || || || || ||
Db 62 TTGGAATCTTTGATTAATGATGATGATGATGATGATGATGATGATGATGATGAT 121
    || || || || || || || || || || || || || || || || || || || ||
Qy 701 AAGTATTTACAACTTATGACAGCAATGATGATGATGATGATGATGATGATGATGAT 760
    || || || || || || || || || || || || || || || || || || || ||
Db 122 CAGTATTTTACAGCATATACGAAATGAGCAGATATAGCTTAAAGTTCGGGCTCAT 181
    || || || || || || || || || || || || || || || || || || || ||
Qy 761 AGGATTTAACGACGACGACGAGAGTATACCCAGCAGAGTGAAGTATGATAC 820
    || || || || || || || || || || || || || || || || || || || ||
Db 182 AGGAGCAAAACACTGCTGAGCTAAATATACGGCTTCACATGATGATGATGATGAT 241
    || || || || || || || || || || || || || || || || || || || ||
Qy 821 TGCGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 880
    || || || || || || || || || || || || || || || || || || || ||
Db 242 AAGCTGGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 298
    || || || || || || || || || || || || || || || || || || || ||
Qy 881 TGATGTTCAACAGCAAGAGTGTGTTTCAGCAGAAATCTCTGGGAGGCTCATTTTGGC 940
    || || || || || || || || || || || || || || || || || || || ||
Db 299 GGATGCTGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 358
    || || || || || || || || || || || || || || || || || || || ||
Qy 941 TTC-TGATGTCCTCAATCTCCATCTGATCTTTTCCACAGTGGCCAAATGACCGAC 999
    || || || || || || || || || || || || || || || || || || || ||
Db 359 ATACAAAGTCCCAAACTTTCCTGCTGACCAATACCCACCAAGTAAATCACAGAC 418
    || || || || || || || || || || || || || || || || || || || ||
Qy 1000 TGAAGCGGAAATTCACGGG 1020
    || || || || || || || || || || || || || || || || || || || ||
Db 419 TTGATGCCAAGTCAATTAGG 439
    || || || || || || || || || || || || || || || || || || || ||
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RESULT 13
US-09-385-982-33
; Sequence 33, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CDDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 742
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(742)
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Query Match	Best Local Similarity	Score	DB	Length
Matches 153; Conservative	61.4%	95.4	1e-19	335;
	0;	Mismatches 96;	Indels 0;	Gaps 0

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QY      615  GAATACGAGTAATGCAAAAACAGTTACTCTGGAACTACTGGATTAATGACACAGCTGTAT  674
Db      1368  RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR  1307
QY      675  GCTACTAAGATGAGCGTGTCTACTCAGGATTTTCAACATTATGACAGAGTGGTACA  734
Db      1308  RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR  1245
QY      735  TACAGTGTAAAGTCGGCGCTCTGGGAGGATTAAACCAACCGAGCGAGAGTGATTACC  794

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GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 7.20096 Seconds
(without alignments)
11417.439 Million cell updates/sec

Title: US-09-049-696-19
Perfect score: 3040
Sequence: 1 AACCAAGTGGTGCATCATC.....AAATGCTAAACAACTGGGTA 1683

Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 231628 segs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

-MODL=frame+np.model -DEV=xlh
-O=/cgn2_1/USPTO.spool/US09049696/unnat_16102002_115821_24739/app.query.fasta_1.13694
-DB=Issued.Patents.AA -QPMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=bl0sum62 -TRANS=human40.cdi
-LIST=45 -DOCCALIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15
-MODE=LOCAL -OUTPMT=ptc -NORM=ext -HEAPSIZE=500 -MITLEN=0 -MAXLEN=2000000000
-USER=US09049696 -GCGN_1_1_57 -etunat_16102002_115821_24739 -NCPU=6 -ICPU=3
-NO_XLPRY -NO_XMAP -LARGEQUERY -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELop=6 -DELEXT=7

Database :

- 1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
- 2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
- 3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
- 4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
- 5: /cgn2_6/ptodata/2/1aa/PCtus.COMB.pep.*
- 6: /cgn2_6/ptodata/2/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2518	82.8	914	4	US-09-193-562D-28
2	1203	39.6	228	1	US-08-469-667-9
3	1203	39.6	228	4	US-09-224-110-9
4	1203	39.6	228	5	PCT-US95-07289-9
5	1198	39.4	903	4	US-09-193-562D-46
6	1106	36.4	905	4	US-09-193-562D-2
7	1095	36.0	902	4	US-09-193-562D-34
8	1069	35.2	1000	4	US-09-193-562D-30
9	987.5	32.5	943	4	US-09-193-562D-32
10	903	29.7	795	4	US-09-193-562D-11
11	903	29.7	821	4	US-09-193-562D-12
12	408	13.4	203	4	US-09-193-562D-3

13	117.5	3.9	1848	4	US-08-296-791-6	Sequence 6, Appl1
14	117.5	3.9	1848	5	PCT-US95-10661A-6	Sequence 6, Appl1
15	115	3.8	1447	4	US-09-041-886-25	Sequence 25, Appl1
16	115	3.8	1447	5	PCT-US94-05277-2	Sequence 2, Appl1
17	111	3.7	637	1	US-08-235-838-16	Sequence 16, Appl1
18	111	3.7	637	2	US-08-465-473B-16	Sequence 16, Appl1
19	111	3.7	1395	4	US-09-540-245A-15	Sequence 15, Appl1
20	109	3.6	1529	2	US-08-728-470-10	Sequence 10, Appl1
21	109	3.6	1529	4	US-08-719-641-10	Sequence 10, Appl1
22	107.5	3.5	934	4	US-08-840-466A-19	Sequence 19, Appl1
23	107.5	3.5	1094	4	US-09-268-347-32	Sequence 32, Appl1
24	107	3.5	1600	2	US-08-617-697-10	Sequence 10, Appl1
25	106.5	3.5	966	1	US-08-571-758-2	Sequence 2, Appl1
26	106.5	3.5	966	1	US-08-909-984A-2	Sequence 2, Appl1
27	106.5	3.5	966	1	US-08-909-983-2	Sequence 2, Appl1
28	106	3.5	1651	4	US-09-540-245A-18	Sequence 18, Appl1
29	105.5	3.5	1702	4	US-08-296-791-5	Sequence 5, Appl1
30	105.5	3.5	1702	5	PCT-US95-10661A-5	Sequence 5, Appl1
31	104	3.4	424	5	PCT-US95-03866-12	Sequence 12, Appl1
32	104	3.4	424	5	PCT-US95-03866-14	Sequence 14, Appl1
33	104	3.4	1464	4	US-08-891-640-2	Sequence 2, Appl1
34	104	3.4	241	1	US-08-235-838-11	Sequence 11, Appl1
35	103	3.4	241	2	US-08-465-473B-11	Sequence 11, Appl1
36	102	3.4	678	5	PCT-US93-03027-3	Sequence 3, Appl1
37	102	3.4	878	1	US-08-732-429-2	Sequence 2, Appl1
38	102	3.4	878	4	US-08-237-919-2	Sequence 2, Appl1
39	102	3.4	878	5	PCT-US95-05518-2	Sequence 2, Appl1
40	101	3.3	498	3	US-09-045-632-30	Sequence 30, Appl1
41	101	3.3	541	3	US-09-045-632-36	Sequence 36, Appl1
42	101	3.3	599	3	US-09-045-632-28	Sequence 28, Appl1
43	101	3.3	642	3	US-09-045-632-35	Sequence 35, Appl1
44	101	3.3	818	3	US-09-045-632-25	Sequence 25, Appl1
45	101	3.3	861	3	US-09-045-632-34	Sequence 34, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-28
Sequence 28, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FIDE REFERENCE: 18617_0052
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 28
LENGTH: 914
TYPE: PRT
ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 4.22e-240
Score: 2518.00
Percent Similarity: 100.00%
Best Local Similarity: 99.80%
Query Match: 82.83%
DB: 4
Gaps: 0

US-09-049-696-19 (1-1683) x US-09-193-562D-28 (1-914)

QY 3 CAACAGTGGTGCATCATCAGACAGTGGTGGCCCTGCGACGTCAGAACTAGAG 62
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DB 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeu 446
GAGCTGTCCAAATATGACGAGAGGTTTACAGACATGTGTCAGATCAAGTTCAGAACT 122
|||||

Db 447 GluLeuSerIysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
 QY 123 GGCTATTTATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTTCAGCGCTCC 182
 Db 467 GlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnAspSer 486
 QY 183 ATCAGCTTGAAGTAAAGGATTAACTCCAGAACAGCAGTGAATGCGACAGT 242
 Db 487 IleGlnLeuLeuSerIysGlyLeuThrLeuGlnAsnSerIleThrMetAsnGlyThrVal 506
 QY 243 ATGTGGACAGACACCTGGGAAAAGACACTTGTCTTATCACCCTGGACACGACCT 302
 Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
 QY 303 CCCCAATCCTCTCTGGGATCCAGTGCAGACAGACAGTGGCTTGTAGTGGACAA 362
 Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys 546
 QY 363 AACACCAAAATGGCTACTCTCAAAATCCAGGCAATGCTAAGTGGACACTTGGAAATAC 422
 Db 547 AsnThrIysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566
 QY 423 AGTCTGCAGACAGCTCACAACCTTCACCTGACTGACGTCACGTCCTGCTCCATGCT 482
 Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586
 QY 483 ACCCTGCTCCAAATTACAGTACTTCCAAAACGAAAGACACACCAATTCACCAATTCGCCAGC 542
 Db 587 ThrLeuProIleThrIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
 QY 543 CCTCTGTAGTTATATGCAAAATATTCGCCAAGAGACCTCCCAATTCACAGGCGCAGTGC 602
 Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyLysSerProIleLeuArgAlaSerVal 626
 QY 603 ACAGCCCTGATGTAATGAGTGAATGAAAAACAGTACTTGGACACTGAGTGAATAGA 662
 Db 627 ThrAlaLeuIleGlyLeuSerValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646
 QY 663 GCAGGTGCTAGTGTACTAAGGATGAGCGTGTACTCAAGGTATTCACAACTTATGAC 722
 Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
 QY 723 ACGAATGTGATACAGTGTAAAGTGGGAGCTCTGGAGAGAGTAAAGCAGCCAGAGG 782
 Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAlaAlaAlaArgArg 686
 QY 783 AGAGTGTATACCCGAGAGGAGGAGCTGACTGACTGCTGCTGATGGAATGATGAA 842
 Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGlnAsnAspGln 706
 QY 843 ATACAATGGAATCCACCAAGACCTGGAATTAATAGAGTGTCTTCAACACCAAGCAAGT 902
 Db 707 IleIleIleTrpAsnProProAlaGProGlnIleAsnLysAspValGlnHisLysGlnVal 726
 QY 903 TGTTCAGCAGAACATCCTGGGAGGCTCATTTGTGCTTGTGATGCCCAATGCTCCC 962
 Db 727 CysPheSerArgThrSerSerGlyLysPheValAlaSerAspValProAsnAlaPro 746
 QY 963 ATACCTGATCTCTCCACCTGGGCAATCACCACCTGAAGGGGGAATTCAGGGGGC 1022
 Db 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGlnIleHisGlyGly 766
 QY 1023 AGTTCATTAATCTGACTTGGACAGCTCTGGGATGATTGACCAATGCAAGCAGCTCAC 1082
 Db 767 SerIleuLeuAsnLeuThrTrpThrAlaProGlyLysAspArgLysGlyThrAlaHis 786
 QY 1083 AAGTATATCATTCGAATTAAGTAAAGTATCTTGATCTCAGACAGCAAGTCAATGAATCT 1142
 Db 787 LysTyrIleIleArgLysSerThrSerIleLeuAspLeuArgAspLysPheAsnGlnLys 806
 QY 1143 CTTCAAATGGAATACTACTGCTCTCATCCCAAGAGACCAACTGTGAGGAAGTCTTTTG 1202
 Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGlnAlaAsnSerGlnGlnValIlePheLeu 826

QY 1203 TTTAAACAGAAACATTAATCTTTGAAAATGGCAGACATCTTTTCATGCTATTCAGGCT 1262
 Db 827 PheLysProGlnAsnIleThrPheGlnAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
 QY 1263 GTTGATTAAGTCTGATCTGAATCAGAAATATCCAACTTCACAGTACATCTTTGTTAT 1322
 Db 847 ValAspLysValAspLeuLysSerGlnIleSerAsnIleAlaArgValSerLeuPheIle 866
 QY 1323 CTTCCACAGCTCCGCGCAGACACCTAGTCCGATGAAACGTCGCTGCTGCTTAAT 1382
 Db 867 ProProGlnIleThrProGlnThrProSerProAspGlnThrSerAlaProCysProAsn 886
 QY 1383 ATTCATATCAACAGACCAATCTCTGCAATTCACATTTTAAATTAATGTGGAAGTGATA 1442
 Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
 QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466
 Db 907 GlyGlnLeuGlnLeuSerIleAla 914
 RESULT 2
 US-08-469-667-9
 ; Sequence 9, Application US/08469667
 ; Patent No. 5733748
 ; GENERAL INFORMATION:
 ; APPLICANT: Yu, Guo-Liang
 ; TITLE OF INVENTION: Colon Specific Genes and Proteins
 ; NUMBER OF SEQUENCES: 24
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Carella, Byrne, Bain, Giffillan, Cecchi,
 ; STREET: 6 Becker Farm Road
 ; CITY: Roseland
 ; STATE: NJ
 ; COUNTRY: USA
 ; ZIP: 07068-1739
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/469,667
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Ferraro, Gregory D.
 ; REGISTRATION NUMBER: 36,134
 ; REFERENCE/DOCKET NUMBER: 325800-435
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 201-994-1700
 ; TELEFAX: 201-994-1744
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 228 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-469-667-9
 Alignment Scores:
 Pred. No.: 1,5e-110 Length: 228
 Score: 1203.00 Matches: 228
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 39.57% Indels: 0
 DB: 1 Gaps: 0
 US-09-049-696-19 (1-1683) x US-08-469-667-9 (1-228)
 QY 693 GTCTACTCAAGGATTTTCACAACTTATGACACGAATGTGATACAGTGTAAAAAGTGGG 752


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|||||
Db 1 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg 20
QY 753 GCTCTGGAGAGATTACGACGACGAGAGATATCCCGACAGAGATGAGACTG 812
Db 21 AlaLeuGlyGlyValAsnAlaAlaArgArgValAlleProGlnInserGlyAlaLeu 40
QY 813 TACATACCTGGCTGATGATGAAATGATGAAATGATGAAATGATGAAATGATGAAAT 872
Db 41 TyrIleProGlyTyrPheIleGlnAsnAspGluIleGlnThrPsnProProArgProGluIle 60
QY 873 AATAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 932
Db 61 AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyLysSer 80
QY 933 TTGTGGCTTGTGATGTCCTCAATGCTCCCATGCTGATGCTGCTGCTGCTGCTGCTGCT 992
Db 81 PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProProGlyGlnIle 100
QY 993 ACCGACCTGAGGCGGAAATTCACGGGGCAGTCTCATTAATCTGATGACAGCTCCT 1052
Db 101 ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrThrAlaPro 120
QY 1053 GGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATGATCAAGTAT 1112
Db 121 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerIle 140
QY 1113 CTGTGATCTGAGACAGATTCATGATGATCTCTTCAAGTGAATGATGCTGCTCAATCCA 1172
Db 141 LeuAspLeuAlaArgAspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIlePro 160
QY 1173 AAGGAAGCCACACTCTGAGAGAGTCTTTTGTAAACCGAAGAACATTCCTTTGAAAT 1232
Db 161 LysGluAlaAsnSerGluIleValPheLeuPheLysProGluAsnIleThrPheGluAsn 180
QY 1233 GGCACAGATCTTTTCAATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGAT 1292
Db 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle 200
QY 1293 TCACATGTCGACGAGATATCTTTGTTATTCCTCCACAGACCTCCGACAGACCTAGT 1352
Db 201 SerAsnIleAlaArgValSerLeuPheIleProProGlnIleThrProProGluThrProSer 220
QY 1353 CCTGATGAACGCTGCTCCTTGT 1376
Db 221 ProAspGluThrSerAlaProCys 228

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/469,667
FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferrari, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-224-110-9

Alignment Scores:
Pred. No.: 1,5e-110
Score: 1203.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 39.57%
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-224-110-9 (1-228)
QY 693 GTCTACTCAAGGATTTTCAACACTTATGACAGCAAGATGTAGATACAGTGAAGTGGCG 752
Db 1 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg 20
QY 753 GCTCTGGAGAGATTACGACGACGAGAGATATCCCGACAGAGATGAGACTG 812
Db 21 AlaLeuGlyGlyValAsnAlaAlaArgArgValAlleProGlnInserGlyAlaLeu 40
QY 813 TACATACCTGGCTGATGATGAAATGATGAAATGATGAAATGATGAAATGATGAAAT 872
Db 41 TyrIleProGlyTyrPheIleGlnAsnAspGluIleGlnThrPsnProProArgProGluIle 60
QY 873 AATAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 932
Db 61 AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyLysSer 80
QY 933 TTGTGGCTTGTGATGTCCTCAATGCTCCCATGCTGATGCTGCTGCTGCTGCTGCTGCT 992
Db 81 PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProProGlyGlnIle 100
QY 993 ACCGACCTGAGGCGGAAATTCACGGGGCAGTCTCATTAATCTGATGACAGCTCCT 1052
Db 101 ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrThrAlaPro 120
QY 1053 GGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATGATCAAGTAT 1112
Db 121 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerIle 140
QY 1113 CTGTGATCTGAGACAGATTCATGATGATCTCTTCAAGTGAATGATGCTGCTCAATCCA 1172
Db 141 LeuAspLeuAlaArgAspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIlePro 160
QY 1173 AAGGAAGCCACACTCTGAGAGAGTCTTTTGTAAACCGAAGAACATTCCTTTGAAAT 1232
Db 161 LysGluAlaAsnSerGluIleValPheLeuPheLysProGluAsnIleThrPheGluAsn 180
QY 1233 GGCACAGATCTTTTCAATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGAT 1292
Db 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle 200
QY 1293 TCACATGTCGACGAGATATCTTTGTTATTCCTCCACAGACCTCCGACAGACCTAGT 1352
Db 201 SerAsnIleAlaArgValSerLeuPheIleProProGlnIleThrProProGluThrProSer 220
QY 1353 CCTGATGAACGCTGCTCCTTGT 1376

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Db      569 TrpThrTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThrValThrValThr
Qy      465 TCCCGTGGCGTCCATGCTACCGCTCCCATATACAGTACGCTCCAAAGCAAGAC 524
Db      589 ThrTyrAlaArgSerProThrIleProValIleAlaThrAlaHisMetSerGlnHis
Qy      525 ACCGCAAAATCCCGCCCTGTGTATGCAATATCCCAAGAGAGAGAGAGAGAGAGAGAG
Db      609 ThrAlaHisTyrProSerPrometIleValTyrAlaGlnValSerGlnGlyPheLeuPro
Qy      585 ATTTCAGGCGGAGTGCACAGCCCTGATGATGATGATGATGATGATGATGATGATGATG
Db      629 ValLeuLeuIleSerValIleAlaIleIleGlnThrGlnAspGlnHisGlnValThrLeu
Qy      645 GAACTACTGATATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      649 GlnLeuThrPaspasnGlyAlaGlyArgAspThrValIlyAsnAspGlyIleTyrSerArg
Qy      705 TATTTCACAATCTATGACAGCAAGATGATGATGATGATGATGATGATGATGATGATGATG
Db      669 TyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLeuValHisAlaGlnAlaArg
Qy      765 GTTACCGCAGCCAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      689 AsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnGlyValLeuTyrValProGly
Qy      825 TGATTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
Db      709 TyrValAluAsnGlyLysIleIleLeuAsnProArgProGlnValLysAspAspLeu
Qy      885 GTTCACACAGCAAGATGTGTTCAGCAGCAAGATCTCGGAGAGAGAGAGAGAGAGAGAG
Db      729 AlaIysAlaLysIleGlnAspPheSerArgLeuThrSerGlySerPheThrValSer
Qy      945 GAGTGC---CCAAATGCTCCATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTG
Db      749 GlyAlaProProGlnAsnHisProSerValPheProProSerLysIleThrAspLeu
Qy      1002 AAGCGGAAATTCACGGGGGAGTCTGATTAATGATGATGATGATGATGATGATGATG
Db      769 GlnAlaLysPheLys---GlnAspTyrIleGlnLeuSerThrAlaProGlyAsnVal
Qy      1062 TATGACCATGCAACAGCTCACAAGTATATGATGATGATGATGATGATGATGATGATG
Db      788 LeuAspLysGlyLysAlaAsnSerTyrIleLeuArgIleSerLysSerPheMetAspArg
Qy      1122 AGAGACAAATGCAATGATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAGAGAGCC
Db      808 GlnGlnAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIleProLysGlnAla
Qy      1182 AACCTGAGAGAGCTCTTTTGTATTAACCAAGAAACATTAATCTTTTGGCAAGAT 1241
Db      828 GlnSerLysLysAsnProGlnPheLysProGlnHisPheArgValGlnAsnGlyThrLys
Qy      1242 CTTTTCATTCCTATTCAGGCTGTGATAGCTGATGATGATGATGATGATGATGATGATG
Db      848 PheTyrIleSerValGlnAlaIleAsnGlnAlaAsnLeuIleSerGlnValSerHisIle
Qy      1302 GCACGAGTATCTTTGTTATTCCT 1325
Db      868 ValGlnAlaIleLysPheIlePro 875

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; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 1,46e-99          Length: 902
Score: 1095.00              Matches: 237
Percent Similarity: 66.26%   Conservative: 85
Best Local Similarity: 48.77% Mismatches: 132
Query Match: 36.02%         Indels: 32
DB: 4                       Gaps: 11

US-09-049-696-19 (1-1683) x US-09-193-562D-34 (1-902)
Qy      3 CAAGTGGTGGCATTCATCCACACAGCTGTGGGGCCCTCGACGCTCAAGACTAGAG 62
Db      430 ArgSerGlyAlaIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIle
Qy      63 GAGCTGTCCAAATGACAGAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122
Db      450 ThrLeuSerAspMetThrGlyGlyLeuArgPheThrAlaAsnLysAspLeu-----Asn
Qy      123 GGCCTCATATGCTTTTGGGCGCTTTCATCAGAAATGAGCTGTCTCAGCGCTCC 182
Db      468 SerLeuLeuAspAlaPheSerArgIleSerSerThrSerGlySerValSerGlnAla
Qy      183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACCCAGAGAGAGATGAGGACAGCTG 242
Db      488 LeuLeuLeuLeuSerLysAlaPheAspValArgAlaGlyAlaThrIleAsnGlyThrVal
Qy      243 ATCGTGACAGCAACCGTGGGAAAGACATTTGTTCTTATCACTGACGACAGAGCT 302
Db      508 ProLeuAspSerThrValGlyAsnAspThrPhePheValIleThrTrpMetValLysLys
Qy      303 CCCCAATCTCTCTCTGCGATCCAGTGCAGACAG-----CAAGTGGCTTTGATGCTG 336
Db      528 ProGlnIleIleLeuGlnAspProLysGlyLysLysTyrThrThrSerAspPheGlnAsp
Qy      357 GACAAA---AACACCAAAAGGCGCTACCTCAATCCAGAGAGAGAGAGAGAGAGAGAGAG
Db      548 AspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyThrAlaGlnThrGlyThr
Qy      414 TGCAAAATACAGTCTGCAAGCAAGC---TCACAAACCTTGAACCTGATCAGTCCCGCT 470
Db      568 TrpThrTyrSerTyrThrGlyThrLysSerGlnLeuIleThrMetThrValThrThrArg
Qy      471 GCGTCCATCTACCTCGCTCCATATTCAGTACTTCCAAACGAAACAGACAGACAGCAG 530
Db      588 AlaArgSerProThrMetGlnProLeuLeuGlyTyrCysTyrMetSerGlnSerThrAla
Qy      531 AAATCCCGCAGCCCTCGAGTATGATGCAAAATATGCGCAAGAGAGAGAGAGAGAGAGAG
Db      608 GlnTyrProSerArgMetIleValTyrAlaArgValSerGlnLysPheLeuProValLeu
Qy      591 AGGCGCAGTGTACAGCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATG
Db      628 GlyAlaAsnValThrAlaLeuIleGlnAlaGlnHisGlyHisGlnValThrLeuGlnLeu
Qy      651 CTGATATATGAGACAGAGTGTGATGCTACTTAAGAGAGAGAGAGAGAGAGAGAGAGAG
Db      648 TrpAspAsnGlyAlaGlyAlaAspIleValLysAsnAspLysIleTyrThrArgTyrPhe
Qy      711 ACAACTATGACAGCAAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATG
Db      668 ThrAspTyrHisLysGlnGlyArgTyrSerLeuLysValArg-----ValGln 663
Qy      771 GCAGCCAGACGAGAGAGTG-----ATACCCACAGAGTGGAGACATGATACATACCT 821

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Db      684 AlaGlnArgAsnLysThrArgLeuSerLeuArgGlnLysAsnLysSerLeuTyrIlePro 703
      822 GCCTGGATGAGAAATGATGAAATACATGGAATCCACCAAGACCTGAATTAAGAT 881
      704 GATTYrValGlnAsnLysIleValLeuAsnProProArgProAspValGlnGln 723
      882 GATGTTCAACACAGCAAGATGTGTTTCACAGCAACATCTCGGAGGACCTATTGGGCT 941
      724 AlaIleGlnAlaThrValGlnAspPheAsnArgValThrSerGlyLysSerPheThrVal 743
      942 TCTGATGTCCTCAATGCTCCATACCTGAT-----CTCTTCCACCTGGC 986
      744 SerGlyAlaPro-----ProAspGlyAspPheAlaArgValPheProPheSer 759
      987 CAATTCACCGACCTGAAGGCGGAAATTCACGGGGCAGCTCTATTAACTGACTTGACA 1046
      760 LysValThrAspLeuGlnLysIleValPheIle---GlyAspTyrIleHisLeuThrTrpThr 778
      1047 GCTCCGAGGAGATGATATGACATGAGACAGCTCACAGATATATCATTCGAATAGTACA 1106
      779 AlaProGlyLysValLeuAspAsnGlyArgAlaHisArgTyrIleIleArgMetSerGln 798
      1107 AGTATCTTGATCTCAGACAGCAAGTTCAATGAAATCTTCAAGTGAATCTACTGCTCTC 1166
      799 HisProLeuAspLeuGlnLysPheAsnAsnAlaThrLeuValAsnLysSerLeu 818
      1167 ATCCCAAGAGACCAACCTCTGAGGAAGCTTTTGTTTAAACCGAAGAAATCTACTTTT 1226
      819 IleProLysGlnLysIleGlySerLysGlnAlaPheLysPheLysProLysThrPheLysIle 838
      1227 GAAATATGACAGATCTTTTCAATGCTATTCAGGCTGTGATGAAGGTGATCGATCGAATCA 1286
      839 AlaAsnGlyIleGlnLeuTyrIleAlaIleGlnAlaAspAsnGlnLysSerLeuThrSer 858
      1287 GAAATATCCACATTCGACAGCTATCTTTGTTATTCCTCACAAGCTCCGCCAGACACA 1346
      859 GluValSerAsnIleAla-----GlnAlaValLysLeuThr 870
      1347 CCTAGTCCGATGAAACGCTGCTCTTCTCTTAATATTCAT---ATCAACAGCACCATTT 1403
      871 SerLeuGlnAspSerIleSerAlaLeuGlnLysAspAspIleSerAlaIleSerMetThrIle 890
      1404 CCTGGCATTCACATTTTA 1421
      891 TrpGlyLeuThrValIle 896

```

RESULT 8
 -09-193-562D-30
 Sequence 30, Application US/09193562D
 Patent No. 6309857
 GENERAL INFORMATION:
 APPLICANT: Pauli, Benedicht U.
 TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
 FILE REFERENCE: 18617.0052
 CURRENT APPLICATION NUMBER: US/09/193,562D
 PRIOR FILING DATE: 1998-11-17
 PRIOR APPLICATION NUMBER: US/60/065,922
 NUMBER OF SEQ ID NOS: 47
 SEQ ID NO 30
 LENGTH: 1000
 TYPE: prt
 ORGANISM: Homo sapiens
 US-09-193-562D-30

Alignment Scores:
 Pred. No.: 5,72e-97 Length: 1000
 Score: 1069.00 Matches: 221
 Percent Similarity: 64.50% Conservative: 76
 Best Local Similarity: 48.53% Mismatches: 129
 Query Match: 35.16% Indels: 40

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DB:      4 Gaps:      10
US-09-049-696-19 (1-1683) x US-09-193-562D-30 (1-1000)
      3 CAAAGTGGTCCATATCCACACAGCTGCTTTGGGGCCCTGTGCATCAAGATAGAG 62
      429 GlnSerGlyThrValIleHisThrIleAlaLeuGlyProSerAlaAspLysIleGln 448
      63 GAGCTGTCCAAATATGACAGA-----83
      449 ThrLeuSerAsnMetThrGlyLeuHisLysGlyHisCysTyrThrGlnSerTyrSer 468
      84 -----GATTACAGACATATGCTTCAGATCAATTCAGAAAT 122
      469 AlaGlyLysPheIlePheCysGlyHisArgPheTyrAlaHisLysAsnIle-----Asn 486
      123 GGCTTCATTTGATCTTTTGGGCCCTTTCATCAGGAATATGAGCTGTCTCAGCGCTCC 182
      487 GlyLeuIleAspAlaPheSerArgIleSerSerArgSerGlySerIleSerGlnAla 506
      183 ATCCAGCTTGAGAGATGAGGATTAACCCCTCCAGAACAGCCAGTGAATGGACAGTG 242
      507 LeuGlnLeuGlnSerLysThrLeuAsnIleProAlaLysLysTrpIleAsnGlyThrVal 526
      243 ATCGTGACAGACCGCTGGGAAAGGACACTTGTGTTCTTATCAGCTGACAGCAGCCT 302
      527 ProValAspSerThrValArgAsnAspThrSerPheValValThrThrIleGln 546
      303 CCCCAATCTCTCTGCGATCCAGTGACAGAG-----CAAGCT 344
      547 ProAlaIleIleLeuGlnAspProLysGlyLysLysTyrThrThrSerAspPheGln 566
      345 GCCTTTGTATGAGACAAAACACCAAAATGGCTACTCTCAATCCACAGCTGTAG 404
      567 Gly-----GlnLeuAsnIleArgSerAlaArgGlyIleProLysIleAlaGln 583
      405 GTTGACACTTGGAAATACAGTCTGCA-----GCAAGCTCACAAATCTTGACCGTG 455
      584 ThrGlyIleThrThrTyrSerValArgAsnAsnHisThrLysSerGlnLeuThrVal 603
      456 ACTGTACGCTCCCGTGCATGCTACCTGCTCCATTAAGTACAGTCTCAAAAGC 515
      604 ThrMetThrThrArgAlaArgSerProThrThrLeuProValIleAlaThrAlaHisSer 623
      516 AACAGAGACACAGCAAAATCCCAACCCCTCGTAGTATTATGCAAAATTTGCCAAGA 575
      624 MetGlnAsnThrAlaHisTyrProSerProValIleValTyrAlaCysValSerGlnGly 643
      576 GCCTCCCAATTCAGAGGCGCAGTGCACAGCGCTGATGATGAATGAGTGAATAAACA 635
      644 PheLeuProValLeuGlyIleAsnValThrAlaIleIleGlnAsnGlnGlnIleHisGln 663
      636 GTTACCTTGAACCTAGTGAATGAGCAGGCTGCTGATGCTACTAAGAGTACGCTGTC 695
      664 ValThrLeuGlnLeuLysAspAsnGlyIleAlaAspSerValLysAsnAspGlyIle 683
      696 TACTCAAGTATTTACAACTATGACAGCATGTGAGTAAAGCTAAATTCGGGGCT 755
      684 TyrSerArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSerLeuLysValLeuThr 703
      756 CTGGGAGAGATTACGACGACGAGCAGAGAGATACCCAGACAGAGTGAAGTGAAC 815
      704 GlnAlaArgLysAsnThrAla-----ArgLeuSerGlnGlnAsnLysAlaLeuTyr 721
      816 ATACCTGGCTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 875
      722 ValProArgTyrAlaGlnLysGlnLysIleIleLeuAsnProSerLysProLysValThr 741
      876 AAGATGATGTTCAACACAGCAAGT---TCTTCAGAGACAACTCTCGGAGGAGCTCA 932
      742 ---AspAspValGlnGlnAlaGlnIleThrAspAspPheSerPheLeuThrSerIleGlySer 760
      933 TTGTGGCTTTCGATGTC---CCAAATGCTCCATCAGTCACTGATCTCCACCTGGCCA 989

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DB 761 PheThrValSerGlyValProProAsnGlyAsnHisSerGlnValPheSerProGlyLys 760
QY 990 ATACGCGACTGAGAGCGGAAATTCACGGGGGAGCTCTATATCTGACTTGAGACAGCT 1049
DB 781 IleValAspLeuGlnValLysPheGlnGlyAspHis---IleGlnLeuSerTrpThrAla 799
QY 1050 CCGGGGATGATGATGACCTGAGACAGCTCACAAAGATATCATTCGAAATAGACAACT 1109
DB 800 ProGlyLysValLeuAspLysGlyArgAlaGlnSerTrpIleLeuArgIleSerLysHis 819
QY 1110 ATTCTGATCTCAGACAGCAAGTTCATGATCTCTTCACTGATGATCTGCTCATC 1169
DB 820 PheLeuAspLeuGlnGlnValAspPheAspLysAlaLeuLeuLeuAsnTrpSerGlyLeuIle 839
QY 1170 CCAAGAGAGCAACTCTGAGGAAGTCTTTTGTAAACAGAAACATTACTTTTGA 1229
DB 840 ProLysGlnProGlySerValGlnSerPheGlnLysProGlyProSerLysIleGln 859
QY 1230 AATGCGACAGATCTTTTCATTTGATTCAGAGCTGTGATGATGATGATGATGATGAA 1289
DB 860 AsnGlyThrThrPheTrpIleAlaIleGlnAlaIleHisGlnAlaAsnValThrSerGln 879
QY 1290 AATACCAACATTCGACAGATCTTTGTTATCTTCCACAGACTCCG 1337
DB 880 ValSerAsnIleAlaGlnAlaThrAsnPheIleProProGlnLysPro 895

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RESULT 9

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US-09-193-562D-32
; Sequence 32, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 32
; LENGTH: 943
; TYPE: PRN
; ORGANISM: Homo sapiens
US-09-193-562D-32

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Alignment Scores:

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d. No.: 6.21e-89 Length: 943
Percent Similarity: 987.50 Matches: 210
Best Local Similarity: 62.79% Conservative: 87
Query Match: 32.48% Mismatches: 145
DB: 4 Gaps: 31
Gaps: 10

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US-09-049-696-19 (1-1683) x US-09-193-562D-32 (1-943)

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QY 6 AGTGGGCGCATTCATCCACAGTGGCTTGGGCGCCCTGACGTCAAGATAGAGAG 65
DB 436 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaProAsnLeuGln 455
QY 66 CTGTCAAAATGACAGAGGATTACAGACATATGCTTCACATCAAGTTCAGAAATGGC 125
DB 456 LeuSerArgLeuThrGlyGlyLeuLysPhePheValProAspLysSerAsnSerAsnSer 475
QY 126 CTGATGATGCTTTTGGGCGCTTTCATCAAGAAATGAGAGCTGTCTCTCAGCGCTCATC 185
DB 476 MetIleAspLysPheSerArgIleSerSerGlyThrGlyAspIlePheGlnHisIle 495
QY 186 CACCTTGAGGTAAAGGATTAAACCTTCACAAACAGCAGCGATGATGACACAGTATC 245
DB 496 GlnLeuGlnSerThrGlyGlnAsnValLysProHisGlnLeuLysAsnThrValThr 515

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QY 246 GTGACAGCACCCTGGGAAAGACACTTTGTTCTTATACACTGG---ACAGCAGACCT 302
DB 516 ValAspAsnThrValGlnAsnAspIleMetPheLeuValThrTrpGlnAlaSerGlyPro 535
QY 303 CCCCAAAATCTTCTGCGGATCCCACTGACAGACAG-----CAAGTGGCTTTGATG 356
DB 536 ProGlnIleLeuPheAspProAspGlyArgLysTrpIleThrAsnAsnPheThr 555
QY 357 GACAAAACACAAATGGCTACCTCCAAATCCAGGGCATGCTTAAGTGGCACTGG 416
DB 556 AsnLeuThrPheArgThrAlaSerIleTrpIleProGlyThrAlaLysProGlyHisTrp 575
QY 417 AATACAGTCTG-----CAAGACGCTCAAAACCTTTCAGCTGCTCAGCTCC 467
DB 576 ThrTrpThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThrValThrSer 595
QY 468 CTTGCGTCCAAATCTACCTGCTCCATTTACAGTCTTCCAAACGAAACAGACAC 527
DB 596 ArgAlaSerAsnSerAlaValProProAlaThrValGlnAlaPheValGlnAspSer 615
QY 528 AGCAAAATCCCGACCCCTGATGTTATGCAAAATTTGCGCAAGAGCTCCCAAT 587
DB 616 LeuHisPheProHisProValMetIleTrpAlaAsnValLysGlnLysPheTrpIle 635
QY 588 CTCAGGCGCAGTGTCAAGCCCTGATGATGATGATGATGATGATGATGATGATGAA 647
DB 636 IleAsnAlaThrValThrAlaThrValGlnProGlnThrGlyAspProValThrLeuArg 655
QY 648 CTACTGATTAATGAGCAGGCTGCTGATCTTAAGAGTACAGGCTGCTTCAAGGAT 707
DB 656 LeuLeuAspAspGlyAlaGlyAlaAspValIleLysAsnAspLysIleTrpSerArgTrp 675
QY 708 TTCACAACTTATGACACAGATGATGATGATGATGATGATGATGATGATGATGATG 767
DB 676 PhePheSerPheAlaAlaAsnGlyArgTrpSerLeuLysValHis-----Val 691
QY 768 AACGACCCAGCAGAGAGATGATACCCACAG-----ACTGAGCAGCTGTAC 815
DB 692 AsnHisSerProSerIleSerThrProAlaHisSerIleProGlySerHisAlaMetTrp 711
QY 816 ATACCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 875
DB 712 ValProGlyTrpThrAlaAsnGlyAsnIleGlnMetAsnAlaProAspLysSerValGly 731
QY 876 AAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 935
DB 732 ArgAsnGlnLysLysLysLysLysLysLysLysLysLysLysLysLysLysLys 750
QY 936 GTGGCTTGTGATGTCCCAATGCTCCCATGCTGATCTCTCCACCTGGCCAAATCAC 995
DB 751 SerValLeuGlyAlaProAlaGlyProHisAspValPheProProCysLysIleIle 770
QY 996 GACCTGAGCGGCAAAATTCACGGGGGAGCTGATTAATGATGATGATGATGATGAT 1055
DB 771 AspLeuGlnAla---ValLysValGlnGlnLysLeuThrLeuSerTrpThrAlaProGly 789
QY 1056 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1115
DB 790 GlnAspPheAspGlnGlnAlaThrSerTrpGlnIleArgMetSerLysSerLeuGln 809
QY 1116 GATCTCAGACAAATTCATGATGATGATGATGATGATGATGATGATGATGATGAT 1175
DB 810 AsnIleGlnAspAspPheAsnAsnAlaIleLeuValAsnThrSerLysAspAsnProGln 829
QY 1176 GAAGCCAACTCTGAGGAAGTCTTTTGTAAACGAAACATTAATCTTTTGAAGTGG 1235
DB 830 GlnAlaGlyLysLeuArgLysIlePheThrPheSerProGlnIleSerThr-----AsnGly 847
QY 1236 ACAGAT-----CTTTTCATTTGATGATGATGATGATGATGATGATGATGATG 1259
DB 848 ProGlnIleGlnProAsnGlyGlnThrHisGlnSerHisArgIleTrpValAlaIleArg 867
QY 1260 GCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1319

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QY 3 CAAAGTGGTCATCATCCACAGTCGTTGGGGCCCTCTGCAGCTCAAGACTGAG 62
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 431 ArgSerGlyAlaIleIleIleIleIleIleIleIleIleIleIleIleIleIle 450
QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGATATGCTTCAGATCAAGTTGCAACAT 122
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 451 ThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAspIle-----Thr 468
QY 123 GGCTCATTCATGATCTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCAGCGCTCC 182
   ||||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnAla 488
QY 183 ATCCAGCTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGGATGATGAGCAGCTG 242
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 489 IleGlnLeuGlnSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
QY 243 ATCTGACAGACACCGTGGGAAAGACACTTGTCTTATCAGCTGAGACAGCGACCT 302
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
QY 303 CCCCAGATCTCTCTGGGATCCAGTGACAG-----AAGCAGGTGGCTTTGTGTG 356
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 529 ProGlnIleValLeuGlnAspProLysGlyLysLysTyrLysThrSerAspPheLysGlu 548
QY 357 GACAAA---AACACCAAAATGGCCCTACCTCCAAATCCAGCATTTGCTAAGTTGGCAGT 413
   ||||| ||| :||| :|||||:|||||:|||||:|||||:|||||:|||||:
Db 549 AspLysLeuAsnLleArgSerAlaArgLeuGlnIleProGlyIleAlaGlnThrGlyThr 568
QY 414 TGGAAATACAGTGTG-----CAAGCAGCTCACAACCTTGACCTGAGCTGACG 464
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 569 TrpThrLysSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrValThr 588
QY 465 TCCGTCGCGTCATGCTACCGTCGCTCCATATACAGTGCATCCAAAGACAGACAG 524
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 589 ThrArgAlaArgSerProThrIleProValIleAlaThrAlaHisMetSerGlnHis 608
QY 525 ACCGAAATATCCCAAGCCCTGTGATTTATGCAAAATTTGCGCAGAGCGCTCCCA 584
   ||||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 609 ThrAlaHisLysTrpSerProMetIleValTyrAlaGlnValSerGlnGlyPheLeuPro 628
QY 585 ATTCTCAGGGCCAGTGTACAGCCCTGATGTAATACAGTGAATGGAACAGATTACCTG 644
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 629 ValLeuGlyLysSerValIleAlaIleIleGlnThrGlnAspGlyHisGlnValThrLeu 648
QY 645 GAACTACTGATATGAGCAGCGTGCATGACTAAGATGAGCGTGTCTCTCAGG 704
   ||||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 649 GlnLeuTrpAspAsnGlyAlaGlyArgAspThrValLysAsnAspGlyIleTyrSerArg 668
QY 705 TATTTACAATATGACAGCAATGATGATAGTATGATAAGTGGCGGCTGTGGAGGA 764
   ||||| ||| :|||||:|||||:|||||:|||||:|||||:|||||:
Db 669 TyrPheThrAspLysTyrGlyAsnGlyArgTyrSerLeuLysValHisAlaGlnAlaArg 688
QY 765 GTTAAAGCAGCCAGCAGAGATGATACCCAGCAGAGTGGAGCAGCTGATACCTGCG 824
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 689 AsnAlaThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeuTyrValProGly 708
QY 825 TGGATTGAGAATGATGAATACAAATGCAATCCCAAGACTGAATATTAATGAAGAT 884
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 709 TyrValGlnAsnGlyLysIleIleLeuAsnProProArgProGlnValLysAspAspLeu 728
QY 885 GTTCAACACCAAGAGTGTGTTTACAGAGAACATCTCGAGGAGCTCATTTGTGCTCTT 944
   :||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 729 AlaLysAlaLysIleGlnAspPheSerArgLeuThrSerIleGlySerPheThrValSer 748
QY 945 GATGTC---CCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATACCGACCTG 1001
   ||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 749 GlyAlaProProProGlyAsnHisProSerValPheProProSerLysIleThrAspLeu 768
QY 1002 AAGCGGAAATTCACGGGGGCACTGCATTAATCTGACTGACAGCGCTCTGGGAGAT 1061
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 769 GluAlaLysPheLys---GluAspTyrIleGlnLeuSerThrAlaProGlyAsnVal 787
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QY 1062 TATGACCATGGAACAGCT 1079
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Db 788 LeuAspLysGlyLysAla 793

RESULT 12
US-09-193-562D-3
; Sequence 3, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicte U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 3
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 associated protein from bovine endothelial cells
US-09-193-562D-3

Alignment Scores:
Pred. No.: 4 64e-32 Length: 203
Score: 408.00 Matches: 84
Percent Similarity: 67.05% Conservative: 32
Best Local Similarity: 48.55% Mismatches: 55
Query Match: 13.42e Indels: 2
Gaps: 2

US-09-049-696-19 (1-1683) x US-09-193-562D-3 (1-203)
QY 810 CTGTACATACCTGCTGGATGTAATGTAATGAAATGAAATGAAATGAAATGAAATGAA 869
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 2 LeuThrValProGlyTyrValGlnAsnGlyLysIleIleLeuAsnProProArgProGlu 21
QY 870 ATTAATGAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCTGGAGGC 929
   :||| :||| :||| :|||||:|||||:|||||:|||||:|||||:
Db 22 ValLysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGly 41
QY 930 TCATTTGTGGCTCTGATGTC---CCAAATGCTCCCATACCTGATGCTCCACCGTGGC 986
   ||||| ||| :||| :|||||:|||||:|||||:|||||:|||||:
Db 42 SerPheThrValSerGlyAlaProProProGlyAsnHisProSerValPheProProSer 61
QY 987 CAATCAGCAGCTGGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGACA 1046
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 62 LysIleThrAspLeuGlnAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThr 80
QY 1047 GCTCCGCGGATGATTAATGCAATGGAACAGCTCACAAGATATCATTCATGAAATGATACA 1106
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 81 AlaProGlyAsnValLeuAspLysGlyLysAlaAsnSerGlyIleLeuArgIleSerLys 100
QY 1107 AGTATCTTATCTCAGACAGCAAGTTCATCAATGATCTCTTCAATGATATCTACTGCTGC 1166
   ||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 101 SerPheMetAspArgGlnGlnAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeu 120
QY 1167 ATCCCAAGAGGACCAACTGTGAGAGTCTTTGTTAAACCAAGAAACATTAATCTTTT 1226
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 IleProLysGlnLumIleGlySerLysGlnAsnPheGlnIleLysProGlnHisPheArgVal 140
QY 1227 GAAATATGGCAGACATCTTTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 1286
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 141 GluAsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGlnLumAsnLeuIleSer 160
QY 1287 GAAATATCCAAATGACAGCAGATATCTTTGTTAAATCTTTTAAATCTTTTAAATCTTT 1325
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 161 GluValSerHisIleValGlnAlaIleLysPheIlePro 173

RESULT 13
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QY 1191 GAAGCTCTTTTGTAAACAGAAACATCTTTGAAATGCGACAGATCTTTCATT 1250
 DB 1008 -----AsnIleThrProAsnSP----- 1014
 QY 1251 GCATTTCAGGCTGTGTAAGTCGATCGTAATTCAGAAATATCCAACTTGCACGCTA 1310
 DB 1015 ---116161nla---AspAlaProSerAlaGlnSerAsnGlnGluIleAlaArgVal 1032
 QY 1311 TCTTTGTTATTCCTCCACAGACCTCG----- 1340
 DB 1033 GlnThrProValProProProAlaProAlaThrGlnSerAlaIleAlaSerGlnGlnPro 1052
 QY 1341 GAGACACCTAGTCCGTGATGGAACGCTGCTCT 1373
 DB 1053 GlnThr---ArgProAlaGlnThrAlaGlnPro 1062
 RESULT 14
 PCT-US95-10661A-6
 Sequence 6, Application PC/TUS9510661A
 GENERAL INFORMATION:
 APPLICANT: Washington University, et al.
 TITLE OF INVENTION: Haemophilus Adherence and Penetration protein
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
 STREET: 4 Embarcadero Center, Suite 3400
 CITY: San Francisco
 STATE: California
 COUNTRY: United States
 ZIP: 94111-4187
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/10661A
 FILING DATE: 16-AUG-1995
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/296,791
 FILING DATE: 25-AUG-1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Treacartin, Richard F.
 REGISTRATION NUMBER: 31,801
 REFERENCE/DOCKET NUMBER: FP-59941/RFT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1848 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 PCT-US95-10661A-6
 Alignment Scores:
 Pred. No.: 0.00753 Length: 1848
 Score: 117.50 Matches: 123
 Percent Similarity: 31.94% Conservative: 53
 Best Local Similarity: 22.32% Mismatches: 186
 Query Match: 3.87% Indels: 189
 DB: 5 Gaps: 28
 US-09-049-696-19 (1-1683) x PCT-US95-10661A-6 (1-1848)
 QY 3 CAAAGTGTGCGCATCATCATGATCGCTTTGGGCGCTTCAGACTCAGAACTAGAG 62
 DB 607 GlnAspAsnArgSerTyrThrLeuLysLysGlyAlaSerThrArgSerGlnLeuPro 626
 QY 63 GAGCTGTCCAAATGACA-----GAGGTTTACAGACATATGCT 101

DB 627 GlnAsnSerGlyGlnSerAsnGlnAsnTrpLeuTyrMetGlyArgThrSerAspAlaIle 646
 QY 102 TCAGATCAAGTTCAGAAC-----AATGCCCTCATTCCTTT 140
 DB 647 LysArgAsnValMetAsnHisIleAsnAsnGlnArgMetAsnGlyPheAsnGlyTyrPhe 666
 QY 141 GGGGCCCTTCATCAGAAATGAGCTGTCTCAGAGGCTCCATCCAGCTTGAGACTAAG 200
 DB 667 Gly-----GlnGlnGlnThrGlyAlaThrGlnAsnGlyLysLeuAsnValThrPheAsn 684
 QY 201 GGAATTAACCTCCAGAACAGCCAGTGAATGAGACAGATGCTGTG-----GACAGC 254
 DB 685 GlySerSerAspGlnAsnArgPheLeuThrGlyGlyThrAsnLeuAsnGlnArgLeu 704
 QY 255 ACCGTGGAAAGACACTTTGTTTATTCACCTCGACCAACAGAGCTCCCAAACTCT 314
 DB 705 AsnValGlnLysGlyThrLeuPheLeuSerGlyArgProThrProHisAlaArgAspIle 724
 QY 315 CTCTGGGATCCCGAGACAGCAAGTGGCTTGTA----- 353
 DB 725 AlaGlyIleSerSerThrLysLysAspProHisPheThrGlnAsnGlnValVal 744
 QY 354 -----GTGACAAAACACCAAAATGAGCCCTACCTCCAAATCCAGGCAATGCT 401
 DB 745 GlnAspArgTrpIleAsnArgAsnPheLysAlaThrThrMetAsnValThrGlyAsnAla 764
 QY 402 AAGTTGGCACTTGGAATATCACTGTGCAAGCAAGCTCACAACTTGACCTCGACTGTC 461
 DB 765 -----SerLeuTyrSerGlyArgAsnValAlaAsnIleThrSer 777
 QY 462 ACGTCCGTCGTCGCAAT-----GCTACCTGCTCCCAAT 497
 DB 778 AsnIleThrAlaSerAsnAsnAlaGlnValHisIleGlyTyrLysThrGlyAspThrVal 797
 QY 498 ACAGTACTTCCAA-----ACGAACAAG 521
 DB 798 CysValArgSerAspTyrThrGlyTyrValThrCysHisAsnSerAsnLeuSerGlnLys 817
 QY 522 GACACGCAAAATTC-----CCAGCCCTGTGTTATGCAAAATTCGCCAAGAGGCC 578
 DB 818 AlaLeuAsnSerPheAsnProThrAsnLeuArgGlyAsnValAsnLeuThrGlnAsnAla 837
 QY 579 TCCCAATTCCTC---AGGGCAGATGTACAGCCCTGATTAATCACTGATGGAATAACA 635
 DB 838 SerPheThrLeuGlyLysAlaAsnLeuPheGlyThrIleGlnSerIleGlyThrSerGln 857
 QY 636 GTTACCTTGAA----- 647
 DB 858 ValAsnLeuLysGlnAsnSerHisTrpHisLeuThrGlyAsnSerAsnValAsnGlnLeu 877
 QY 648 CTACGTGATAATGGA-----GCAGTGGTGAATGCTCTCTAGATGACGGT 692
 DB 878 AsnLeuThrAsnGlyHisIleHisIleAsnAlaGlnAsnAspHisAsnLys----- 894
 QY 693 GTCTACTCAAGTATTTCAACAATTAATGACAGCAATGTATGATACAGTAAAGTGGCG 752
 DB 895 -----ValThrThrTyrAsnThr-----LeuThrValAsn 904
 QY 753 GCTCTGGAGAGACTTAACGACAGCCAGAGAGATGATACCCGACGAGAGTGGAGCACTG 812
 DB 905 SerLeuSerGly-----AsnGlySerPhe 912
 QY 813 TACATACCTCGCTGATGATGAGATGATGAATATACATGGAATTCACCAAGACTGGAAT 872
 DB 913 TyrTyr-----TrpValSerPheThrAsnAsnLysSerAsn-----LysValValVal 928
 QY 873 AATTAAGATGATGATCAACAACAAGCAAGTGTCTTACAGACAACATCTCGGAGAGCTCA 932
 DB 929 AsnLys-----SerAlaThrGlyAsn 935
 QY 933 TTTGTGGTTCTGAGTGTCCAAATGCTCCCATACCTGATCTCTTCCACCTGCCCAATTC 992

Db 936 PheThrLeu-----GlnVal 940
 QY 993 ACCGACCTGAAGCGCAATTCACGGGGCAGCTTCATT----- 1031
 Db 941 AlaAspLysThrGlyLnpProAsnHisAsnGlnLeuThrLeuPheAspAlaSerAsnAla 960
 QY 1032 -----AATCTGACTTGGACAGCTCCCTGGGATGATTAATGACCAGGAACAGCTCAC 1082
 Db 961 ThrArgAsnAsnLeuGlnValThrLeuAlaAsnGlySerValAspArgGly---AlaTrp 979
 QY 1083 AAGTATATCATTCGAATAAGTACAAAGTATCTTGATCTCAGA-----GACAAAG 1130
 Db 980 LysTyrLysLeuArgAsnValAsnGlnLysTyrAspLeuTyrAsnProGlnValGlnLys 999
 QY 1131 TTCATGTAATCTCTCAAGTGAATCTACTGCTCTCATCCCAAGAAAGCAACTCTGAG 1190
 Db 1000 ArgAsnGlnThr-----ValAspThrThr----- 1007
 QY 1191 GAAGCTCTTTTGTAAACAGAAACATTAATCTTTGAAATGGCAGACAGATCTTTTCATT 1250
 Db 1008 -----AsnIleThrThrProAsnAsp----- 1014
 QY 1251 GCTATTCAGCGCTGTGAATAGGTCGATGGAATGCAAAATATCCACATTCGACAGAGTA 1310
 Db 1015 ---IleGlnAla---AspAlaProSerAlaGlnSerAsnAsnGlnGlnIleAlaIleArgVal 1032
 QY 1311 TCTTGTATTCTCCACACAGACTCG----- 1340
 Db 1033 GlnThrProValProProAlaProAlaThrGlnSerAlaIleAlaSerGlnGlnPro 1052
 QY 1341 GAGACACCTAGTCTGATGAAGCTGCTGCTCCT 1373
 Db 1053 GlnThr---ArgProAlaGlnThrAlaGlnPro 1062
 RESULT 15
 US-09-041-886-25
 : Sequence 25, Application US/09041886
 : Patent No. 6235872
 : GENERAL INFORMATION:
 : APPLICANT: Bredesen, Dale E.
 : APPLICANT: Rabizadeh, Sharoz
 : TITLE OF INVENTION: Proapoptotic Peptides, Dependence
 : NUMBER OF SEQUENCES: Polypeptides and Methods of Use
 : NUMBER OF SEQUENCES: 72
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Campbell & Flores LLP
 : STREET: 4370 La Jolla Village Drive, Suite 700
 : CITY: San Diego
 : STATE: California
 : COUNTRY: United States
 : ZIP: 92122
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/041,886
 : FILING DATE:
 : CLASSIFICATION:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Campbell, Cathryn A.
 : REGISTRATION NUMBER: 31,815
 : REFERENCE/DOCKET NUMBER: P-LJ 2626
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (619) 535-9001
 : TELEFAX: (619) 535-8949
 : INFORMATION FOR SEQ ID NO: 25:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1447 amino acids
 : TYPE: amino acid
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein

US-09-041-886-25
 Alignment Scores:
 Pred. No.: 0.0117 Length: 1447
 Score: 115.00 Matches: 115
 Percent Similarity: 31.79% Conservative: 64
 Best Local Similarity: 20.43% Mismatches: 194
 Query Match: 3.78% Indels: 190
 DB: 4 Gaps: 26
 US-09-049-696-19 (1-1683) x US-09-041-886-25 (1-1447)
 QY 27 GTCGCTTGGGCGCTCTGCAGCTCAGCAAGTACAGAGAGCTGTCCAAATGACAGAGGT 86
 Db 189 ValValValLeuProSerGlyAlaLeuGlnIleSerArgLeu-----GlnProGlyAsp 206
 QY 87 TTACAGACATATGCTTCAGATCAAGTCAAGAACATGGCCCTCATGATGATCTTTGGGCC 146
 Db 207 IleGlyIleTyrArg-----CysSerAlaArgAsnPro 217
 QY 147 CTTTCATCAGCAAAATGAGCTGTCTCTCAGCCCTCCATCCAGCTTGAGATGAGGATTA 206
 Db 218 AlaSerSerArgThrGlyAsnGlnValGlnValArgIle---LeuSerAspProGlnLeu 236
 QY 207 -----ACCTCCAGACAGCCAGTGATGATGACAGATGATGATGATGATGATGATGATG 260
 Db 237 HisArgGlnLeuTyrPheLeuGlnArgProSerAsnValAlaIleGlu----- 253
 QY 261 GGAAAGACACTTGTCTTATTCACCTGACAGCAGCAGCCCTCCCAATCTCTCTGG 320
 Db 254 GlyLysAspAlaValLeuGlnLysCysValSerGlyTyrProProSerPheThrTrp 273
 QY 321 GATCCAGTGGACAGACAGAGCTGCTTTGTAGTGCACAAAACCAAAATGACCTTAC 380
 Db 274 -----LeuArgGlyGlnValIleGlnLeuArgSerLys----- 285
 QY 381 CTCCAATCCGACGATTTGCTAAGTTGGACTGTGAATACAGTCTGCAAGACGTCA 440
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 Db 294 AsnLeuLeuIleSerAsnValThrAsp----- 302
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 Db 303 -----AspAspSerGlyMetTyrThrCysValValThrTyrLys 315
 QY 561 AATATTGCGCAAGAGAGCTCCCAATTCAGAGGCCAGTGCACAGCCCTGATTGAA--- 617
 Db 316 AsnGlnAsnIleSerAlaSer-----AlaGlnLeuThrValLeuValProPro 331
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 QY 738 AGTGTAAA-----GTGCGGCTCTGGGAGGAGTTAAGCAGCC 776
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Search completed: October 17, 2002, 19:01:45
Job time : 26.201 secs

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: October 17, 2002, 18:59:25 ; Search time 58 seconds
(without alignments)
3870.845 Million cell updates/sec

Title: US-09-049-696-41
Perfect score: 4759
Sequence: 1 MGFKSSVFILHLELAL.....GIHLIKIMKIGELQSLA 914

Scoring table: BIOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 38353 seqs, 122816752 residues
Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
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-DB-Issued.Patents.NA -QFMT-fastlap -SUFFIX-rnl -MINMATCH=0.1 -LOOPTCL=0
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- 1: /cgn2_6/ptodata/2/1na/5A.COMB.seq.*
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 - 5: /cgn2_6/ptodata/2/1na/PCTUS.COMB.seq.*
 - 6: /cgn2_6/ptodata/2/1na/backfillseq.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2334	49.0	3317	4	US-09-193-562D-1
3	2333	49.0	3022	4	US-09-193-562D-33
4	2262.5	47.5	3418	4	US-09-193-562D-29
5	1998.5	42.0	2970	4	US-09-193-562D-31
6	1347	28.3	878	1	US-08-469-667-8
7	1347	28.3	878	1	US-09-224-110-8
8	1347	28.3	878	5	PCT-US95-07289-8
9	618	13.0	401	4	US-09-221-328-8
10	519	10.9	576	4	US-09-385-982-23
11	468.5	9.8	595	4	US-09-385-982-25
12	447	9.4	618	4	US-09-385-982-24

13	421.5	8.9	611	4	US-09-385-982-27	Sequence 27, Appl
14	373.5	7.8	742	4	US-09-385-982-33	Sequence 33, Appl
15	203	4.3	335	4	US-09-193-562D-14	Sequence 14, Appl
16	143	3.0	7253	4	US-09-268-347-35	Sequence 35, Appl
17	139.5	2.9	4803	2	US-08-617-667-8	Sequence 8, Appl
18	137	2.9	5738	2	US-08-409-995-3	Sequence 3, Appl
19	137	2.9	5738	3	US-08-685-467-3	Sequence 3, Appl
20	137	2.9	7291	4	US-08-913-942-3	Sequence 3, Appl
21	131.5	2.8	4702	1	US-08-038-662-8	Sequence 8, Appl
22	131.5	2.8	4702	1	US-08-302-832-8	Sequence 8, Appl
23	131.5	2.8	4702	2	US-08-530-198-8	Sequence 8, Appl
24	131.5	2.8	4702	2	US-08-469-880-8	Sequence 8, Appl
25	131.5	2.8	4702	2	US-08-728-470-8	Sequence 8, Appl
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35	123	2.6	16836	4	US-09-147-236-1	Sequence 1, Appl
36	123	2.6	16836	4	US-09-147-236-10	Sequence 10, Appl
37	122.5	2.6	9542	4	US-09-968-685A-9	Sequence 9, Appl
38	122	2.6	9171	1	US-08-038-662-5	Sequence 5, Appl
39	122	2.6	9171	1	US-08-302-832-5	Sequence 5, Appl
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45	121.5	2.6	2363	4	US-09-721-383-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-09-193-562D-27
Sequence 27, Application US/09193562D
Patent No. 6509857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 27
LENGTH: 3007
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-27

Alignment Scores:
Pred. No.: 0
Score: 4756.00
Percent Similarity: 100.00%
Best local Similarity: 99.89%
Query Match: 99.94%
DB: 4
Gaps: 0

US-09-049-696-41 (1-914) x US-09-193-562D-27 (1-3007)

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Db 107 AGTAATTCACCTCATTCGCTGAACAACAAATGGCTATGAAGGCACTGCTGTCATTCGAC 166
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Oy 796 IleLeuAspLeuArgAspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIle 815
Db 2472 TTCATGATGCTGCAAGAAAGATTTTTCATATGATGATGATGATGATGATGATGATGAT 2531
Oy 816 ProLysGlnAlaAsnSerGlnIleValIlePheLeuPheLysProGlnAsnIleThrPheGln 835
Db 2532 CCTAAGGAGCGCGATCAAGAAAGAAATTTTGAATTAACCCAGAAATTTTGAAGTAGAA 2591
Oy 836 AsnGlyThrAspLeuPheIleAlaIleGlnAlaValAlaAspLysValAspLeuLysSerGln 855
Db 2592 AATGGACCAAAATTCATATTTTCAGTCCAAAGCATCAAGAAAGCAAGCAAGCAAGCAAG 2651
Oy 856 IleSerAsnIleAlaArgValSerLeuPheIlePro 867
Db 2652 GTTTCACATTTGTACAAAGCAATCAAAATTTATTCCT 2687

RESULT 3
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: US/09/193,562D
; PRIOR APPLICATION NUMBER: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

Alignment Scores:
Pred. No.: 1,03e-232 Length: 3022
Score: 2333.00 Matches: 482
Percent Similarity: 67.42% Conservative: 143
Best Local Similarity: 52.00% Mismatches: 258
Query Match: 49.02% Indels: 44
DB: Gaps: 16

US-09-049-696-41 (1-914) x US-09-193-562D-33 (1-3022)
Oy 1 MetGlyProPheLysSerSerValPheIleLeuIleHISLeuGlnGlyAlaLeu 20
Db 18 ATGTGTCAGGCTGACAGCTCTTCTGTTCCCTACCTCTGATCTCTGAGAACACA--- 74
Oy 21 SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGlyGlyIleValValAlaIleAsp 40
Db 75 GAGAGCTCATGCTGATCTCAACAGCAATGATACGAGCGTGTGTCATTGCCATTAAAC 134
Oy 41 ProAsnValProGlnAspGlnThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
Db 135 CCCAGTGTGCCAGAGACCAAGAGCTCATCCCAAGCATTAAGAAATGTTACTCAAGCT 194
Oy 61 SerLeuThrLeuPheGlnAlaThrGlyLysArgPheThrPheLysAsnValAlaIleLeu 80
Db 195 TCTACCTACTCTTTGAAGCCAGCAAGAGAGATTATTTAAGAACTTAAGCATTAATTA 254
Oy 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGlnThrTyrLys 100
Db 255 GTCGCCAGTACCTGGAAGTGAAGCAAAATCTGATCTTAATGCCAAAGCAAGATCTACGAC 314
Oy 101 AsnAlaAspValIleuValAlaGlnSerThrProProGlyAsnAspGluProTyrThrGln 120

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Dd	315	AAAGAGAGCGCATATGTTGGGAGATCTCACCTTGCAACATGAGACACGACCCCTACACCTT	374
Qy	121	GlIneGtGlyAsnGlySerGlyGluGlyValGlyIaGlyIeHisLeuThrProAspPheIleIa	140
Dd	375	CAGTATGACAGAGTGTGGGAGACAGAGACATACATACACTTACTCTCAAACTTCTTACTC	434
Qy	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyIaGlyAlaPheValHisGluTyrPheAlaHis	160
Dd	435	ACTGATTAACCTTGCCTATCTATGTAGACCCCGAGGAGAGATCTTTGTCATGATGAGGCCAT	494
Qy	161	LeuArgTyrPglValAlaPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSer---Asn	179
Dd	495	CTCCGGTGGGAGATTTGATGATATACAGTGGACCGGTCACCTTACATTTCTGTGAAAG	554
Qy	180	GlyArgIleGlnIleAlaValAlaArgCysSerAlaGlyIleThrGlyThrAsnValLysLys	199
Dd	555	AACACTATAGAGACGACAAAGAGTGTCCGCGACATACAGGCAAGAAAGTGTCCACGAG	614
Qy	200	CysGlnGlyLysCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyr	219
Dd	615	TGTGAGAGACGACCTGTGTGACAAAGGCGCTGGCGGCGTACTCGAAGACGGGTGAT	674
Qy	220	GluLysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPhe	239
Dd	675	GAAACCAATATCATATTATTCGCCAGCAAAATACAGACAGCTGGGCGCTCCATATGTTC	734
Qy	240	AlaGlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluIa	259
Dd	735	ATGCAAAAACCTCAATTCTGTGTGTGAAATTTTGCACAGAAATATACCATATCCAGAGCC	794
Qy	260	ProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTyrPheLysIleArgAspSer	279
Dd	795	CCAAACCTCAAAACAAATAGTGCATCGCAGAAAGCAGTGGGATGTATCAAGACGCT	854
Qy	280	GluAspPheLysLysThrThrPromet-----ThrThrGlnProProAsnProThrPhe	297
Dd	855	GCTGACCTTCAGATGGCCCTCCACATGAGAGAAAGAAAGCCCTCCCTCCACCTCAATT	914
Qy	298	SerLeuLeuGlnIleGlyIaArgIleValAlaCysLeuValLeuAspLysSerGlySerMet	317
Dd	915	TATCTGCTCAGTCCACAAAGCCAGTGTGTCTGTGTCTGTGTATTAATCTGAAAGCATG	974
Qy	318	AlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnPheLeuPheLeuGlnThr	337
Dd	975	GACAAAGAGACGCTTATTCGATGAATCAAGACAGCAAGAACTGTATTACTCAAAAT	1034
Qy	338	ValGluLeuGlySerTyrPvalGlyMetValThrPheAspSerAlaAlaHisValGlnSer	357
Dd	1035	GTGGAAGAGAGCTATGAGTGTGATGTAGTCATTTGACATTTGACAGCGCTGCCACATCCAAAT	1094
Qy	358	GluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProIa	377
Dd	1095	TATCTATATAAAATAACGAGTAGTAGTACCCAAAGATTCACCGCAAACTCCCCAA	1154
Qy	378	AlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArg	397
Dd	1155	CAGGCTTGTGTGAACTCAATTGTCCATGGACCTCCAGCAGAGATTTGAGGCATTTACC	1214
Qy	398	LysLys---TyrProThrAspGlySerGluIleValLeuLeuThrAspGlyLysAspAsn	416
Dd	1215	TCCAGTGCACGACACTTCCGCTTCGATGCAATGCTATTGCTGCACAGATGGGAATATAT	1274
Qy	417	ThrIleSerGlyLysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAla	436
Dd	1275	GGAAATCCTTCTCTTAGAGCCGCTCTCGCAGGCGGTCCATCTCAACCACTCGCT	1334
Qy	437	LeuGlyProSerAlaAlaGlnGluLeuGlnGluLeuSerLysMetThrGlyGlyLeuGln	456
Dd	1335	CTGGGGCGCTTGGCGTCCGCAAGAACTGGAACTCTGTCCGACATATGACAGAGCGCTTCT	1394
Qy	457	ThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSer	476

Db	1395	TTCTATGCCAACAAGACCTA-----AACACGCTTATCGATGCTTTCAGTAGAATTTC	1448b
Qy	477	SerGlyAsnGlnAlaValSerGlnArgSerIleGlnLeuGlnSerLysGlyLeuThrLeu	496
Db	1449	TTCTACAAATGGCAGCGTCTCCACAGACGCTCTGCAGTTGGAGAGCAAAACCTTCGATGTC	1508b
Qy	497	GlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThr	516
Db	1509	AGACGAGGCGCATGAGTAAACCGTAGACGTACCTCTGGACAGTACCTGCGGCAMCAGACG	1568b
Qy	517	LeuPheLeuIleThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProserGly	536
Db	1569	TTCTTGTATTACCTCGGATGGTAGTAAAGCCGGAATCATCTTCTTCACATGCTCAAAAGGA	1628b
Qy	537	GlnLys-----GlnGlyGlyPheValValAspLys---AsnThrLysMetAlaTrpLeu	553
Db	1629	AAAAAATATACAACTCAGATTTTCCAAAGATGAATAACTAACTCCGCGTCTGACTT	1688b
Qy	554	GlnIleProGlyIleAlaLysValGlyThrTrpLysTySerLeuGlnAlaSer---Ser	572
Db	1689	CAAAATACGGGCGACTGCGAGACAGACAGTACTGGACTTACAGCTACACGGGATCCAAAGCT	1748b
Qy	573	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProProIleThr	592
Db	1749	CAGTTGATTACAAAGACAGAGACCCACTCGGACGAAGAAGTCCACCATGGACCACTCTG	1808b
Qy	593	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTrpAla	612
Db	1809	GGCTACTCTCATGATGACGTACAGACAGACGCCCACTACCTACCGGATGATTTGTACCCA	1868b
Qy	613	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGlnSer	632
Db	1869	CGGGTCACCCAAAGATTTTGGCTGTCTGTGGAGCCAAATGTACAGACCTCATGAACCT	1928b
Qy	633	ValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	652
Db	1929	GAACCTTGACATCAAGTACCTCTGGACCTCTGGGCAAAATGGGCGAGTCTGATATGCTT	1988b
Qy	653	LysAspAspGlyValLysSerArgTyPheThrThrTyAspThrAsnGlyArgTrpSer	672
Db	1989	AAAAATGATGGCATCTTACACAGATACCTTTACAGATTTATCATGGAATGTGTGATACGC	2048b
Qy	673	ValLysValAlaGalaLeuGlyGlyValAsnAlaAlaArgArgArgVal-----Ile	689
Db	2049	CTAAAGTGCCT-----GTCCAGGCGCAAGAAACAAACAGACTGACCTTA	2096b
Qy	690	ProGlnGlnSerGlyAlaLeuTyIleProGlyTrpIleGlnAsnAspGluIleIleTrp	709
Db	2097	AGACGAAGAACAAGTCTTTATATATACCTCGGTATGTGGTAAATGTGTAATTTCTACTG	2156b
Qy	710	AsnProProArgProGluIleAsnLysAspAspValGlnIleLysGlnValLysPheSer	729
Db	2157	AATCCACCCACACAGATGTCGCAAGAAAGACCATTGAAAGCTACAGTGGAGACTTTCAC	2216b
Qy	730	ArgThrSerSerGlyLysSerPheValAlaSerAspValProAsnAlaProIleProAsp	749
Db	2217	AGAGTAACCTCTGGAGGGGTGCTTACTGTCTGGAGCCCC-----CCTGAT	2264b
Qy	750	-----LeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHis	764
Db	2265	GGCGACACGCTCGTGGTTCGCCACCAAGTAAGTACAGACCTGGAGGCTGAGTTTATA	2324b
Qy	765	GlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyArgAspIleGlyThr	784
Db	2325	---GGTGTATTATTTCACCTTACATGACGCGCCCTTGGCAAGTTCTGCACATGTGAAGA	2381b
Qy	785	AlaHisLysTyRleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsn	804
Db	2382	GCACATGATACATCATCAGATGAGCAGACATCCCTGATCTCCAGAAAGATTATTAC	2441b
Qy	805	GlnSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGlnGluVal	824
Db	2442	AATGCTACTTTTGAATGCTTCCAGCTGTGATACCTTAAGAAAGCTGCGCTCAAAACACCA	2501b

[illegible]

D	325	GCACAGTGGCTGATCTTTTACCTGGAATTAACGAGATGATCCTTAATCACTTCAATATGGA	384
Q	124	ASNCYSGLYLVSGLYGLIUAIRLIEHISLEUTHPROASPHEILAEALGLYSLS	143
D	385	CAATGTGGAGTAAAGGCAAAATATATCACTTTACCTCAAACTCTTTGGACTAATAAC	444
Q	144	LEUALAGLUTRYGLYPROGLIARGLAPHEVALIHISGLIURPRLAHISLEUAATGRP	163
D	445	TTGGCTACCTATGGGCTCCAGAGTAAGATATTGTTCATGGGTGGGCCCATCTCCGGTGG	504
Q	164	GLYVALPHEASPGIUTRYRASNASNAPGLULYSBETHEULEUSER---ASNGIYARGLIE	182
D	505	GGAGATTTGGATGGATTAATGTGGACCACCACTTCAATTTCCAGAGAAACACTACT	564
Q	183	GLINALVALAGCYSSERIALGLYLIEETHGLYTHRASNAVVALYLSYSCSGINGLY	202
D	555	GAAAGAACAAATATTTCCACTCGTATTACGTGTTACATGGTTTTGAACAAATCCAGGGGG	624
Q	203	GLYSERYTYTRYTHIRYSARGCYTHPHEASNLSVALTHRGILYEUTRYGLYUSGLY	222
D	625	GCACAGCTGTATAGACAGCCATTCACAGCGTACACTCACAGCAGGCGGTATAGAGGAAA	684
Q	223	CYSGLUPHEVALLEUGINSEIRARGINTHGLULYSALASERILMETPHEALAGNIHS	242
D	685	TGTACATTTATCCCAAGAGATCCCAACACGCCAAGGAATCCATTTGTTATGCAAAAT	744
Q	243	VALASPERILIEVALGLUPHECYSTHGLIGLASHNHSINLSYSGULAPROENLYS	262
D	745	CTTGATTTCTGTGACTGAATTTTGTACIGGAAAAAACACACATTAABAACTCCAAACCTA	804
Q	263	GLASNGLINLSCYASNLEUAIRGSETRHTRPGLIUALLEARGASPERGLIUSPHE	282
D	805	TATTAACAAAATGTCCCAATCACAGACACATGGGATATATCATGTGCTCAGATTTT	864
Q	283	LYSLYSTRHTIRPROMETCTR---THRGIPROPSANPROTHRPHESEIRLEUGIN	301
D	865	CAGCATTTATCTCCCATGACAGAAATTAATTACCTCCTCCTACATTTTCATTGCTCAAG	924
Q	302	ILEGLYGLNARGILLEVALCYSLLEUVALLEUASPLYSERGLYSERMETALATHRGILASN	321
D	925	TCCAAACAGCGCTGTAGTCTGTGGTCTGTGAATAATCTGGAAGCATGATGCACAGAAC	984
Q	322	ARGLEUASNARGLEUASNGLINALGLINLEUENPHELEUGLEUHPHARGILEUGINGLY	341
D	985	CGCTCTTTTGCATAGAAATCAAGCAGCAAGAAATTTACTGTGATCAAAATTAATGAAGGGA	1044
Q	342	SETRIPVALGLMETVALTHIRPHEASPERIALAHISVALGINSERGLIUEULIEGIN	361
D	1045	TCTTTGGTGGTGTGGTGCACATTTTGACACGTTTTGCTAATAATCCAAAGTAAAGCTATAAA	1104
Q	362	ILEASNSEIRGLYSERASPARGLASPTIRLEUALALYSARGLEUPROALIAALASERGLY	381
D	1105	ATAAATGTATGATAACACTTACCAAAAGATACACGAAACCTGCTCCACAAACCTATAGTT	1166
Q	382	GLYHRSERILECYSSERGLYLEUARGSERIALAPHETRVALIIE---ARGLYLSYTRY	400
D	1165	GGCACTTCATTTCCAGGGGACATCAAAAGCAGATTTCCAGGCAATTTCCCAAGAGTATCAG	1222
Q	401	PROTHRASPGIYSERGLIULIEVALLEULEUTHRASPGIYGLIUNASPSANTHRLLESERGLY	420
D	1225	AGTACTTTCGGTCTCTGAAATCATATTAATCAATACGATGGGGAAGATTAATCAAAATAGCTTA	1284
Q	421	CYSPHEASNGLIUALYVSGINSEIRGLYALALIEHISITHVALALALEUGLIPROSER	440
D	1285	TGCTTTGGAGAGGGTAACAAAGTGGGACAGTATCCACACCAATGTCTGTGGGCCGTCT	1344
Q	441	ALALAGLNGIULEUGIUGIULEUSERLYSMETHTGLY-----	453
D	1345	GCTGACAGACAGACAGGAGACCTGTCAAAATATGACAGATTAATGAAGGACACTGTTAT	1404
Q	454	-----GLYLEUGINTHTRYALASER	460
D	1405	ACTGAAGTTCAATATAGTCTGTGGGAAGTTCATCTTTTGGGACATCTGTTTATGCCCAT	1464

Oy	461	AspInValGlnsInsnnglyLeuileAspAlaPhbclyAlaLeuSerSerlysnngly	480
Db	1465	AAAAACATA-----AATGGCCATTATGATGCTTTCACGAGAAATTCATCGAAGTGGC	1518
Oy	481	AlaValSerGlnAspSerIleGlnLeuGlySerLySgLYleuThrLeuGlnAsnSerGln	500
Db	1519	AGCATCTCTCAGCAGCGCTCTTCAGTTGGAAAGTAAACCTTGAATATCCACCGAAGAA	1578
Oy	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuile	520
Db	1579	TGGATTAATGGTACAGCGCTGTGGATAGTACAGTTAGAAAGAAATCACTCTTGTGTGC	1638
Oy	521	ThrThrPThrGlnProProGlnIleLeuLeuThrPAspProSerGlyValGlns-----	538
Db	1639	ACATGACGATACACAAAGCCAGCAATATATCTTCAAGATCCAAAAGAAAAAATATCT	1698
Oy	539	-----GlnGlyGlyPheValValAspLysAsnThrLysMetAlaTryLeuGln	554
Db	1699	ACCTCAATTTTCCAAAGAGT-----GAACCTAAATATTTGGCGTCCCGCTTTCGA	1749
Oy	555	IleProGlyIleAlaLysValGlyThrTrpTySerLeuGln-----AlaSer	571
Db	1750	ATACAGAGTATGCGAGACAGCAGCTTGACTTACAGGTTTCGAAACATCATACCAA	1809
Oy	572	SerGlnThrLeuThrLeuThrValThrSerArgAlaSerAspAlaThrLeuProPhe	591
Db	1810	TCTCAATGTGTAAGTGTGACCAATGACACAGCAGCAAGAAAGCCATACACATCCCACTA	1865
Oy	592	ThrValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTr	611
Db	1870	AATGCAACTCTCATCATGACTCAATAAATACAGCCATCATCCCTACGCCCACATGATGTTAT	1928
Oy	612	AlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGln	631
Db	1930	GCATGTCTCAGTCAGAGGTTCTTCTCCTGTCTGGGAATCAATGTAAACGCCATTATACA	1988
Oy	632	SerValAsnGlyLysThrValThrLeuGlyLeuLeuAspAsnGlyAlaGlyAlaAspAla	651
Db	1990	AATCAAGAGGACATCAATGATACATTCGAGACCTCCGCAGAAATGGCGCAGCTGTATCT	2049
Oy	652	ThrLysAspArgLYValIlyrSerArgTyRheThrThrTyAspThrAsnGlyArgTy	671
Db	2050	GTCAGAAATGTGGCATCTACTAGAGTATTTACAGATTCACATGGAATGGTGTGATAC	2109
Oy	672	SerValLysValArgAlaLeuGlnGlyValAsnAlaAlaArgArgAlaValIleProGln	691
Db	2110	AGTTTAAAGTCGTTACCCAGGCGAAGAAAAACACAGCT-----AGCTAATGATACAA	2165
Oy	692	GlnSerGlyAlaLeuTyrlleProGlyTyrlleGlnAsnAspGlyIleGlnTrpAsnPro	711
Db	2164	CAGATTAACCTGTATGTACGCCGCTATGCGTAAAGAAAGAAATTTACTGTAAACCA	2223
Oy	712	ProArgProGlyIleAsnLysAspAspValGlnHisLysGlnVal---CysPheSerArg	730
Db	2224	TCCAAACCTGAATGCANA---GATGATGTGGAAAGAGCTCCAAACAGACAGCTTACGACA	2288
Oy	731	ThrSerSerGlyLysPheValAlaSerAspVal---ProAsnAlaProIleProAsp	749
Db	2281	CTCAACCTCTGGAGGCTGTTTACTGTATACAGAGTCCCTCTTAATGTAAATCATTTCCAG	2340
Oy	750	LeuPheProProGlyGlnIleThrAspLysValaGlnIleHisGlyLysLeuile	769
Db	2341	GTGTCTCACCTGGTAAATTTAGACCTCGAGGCTCAAACTTTCAAGGAATCAT--ATT	2397
Oy	770	AsnLeuThrTrpThrAlaProGlyAspAspTyArgHisGlyThrAlaHisLysTyrlle	789
Db	2398	CAACTTCATGAGACGCTCCCTGGCAAGGTCCTGATAAAGGAAGAGCTGACGATCACTT	2455
Oy	790	IleArgIleSerThrSerIleLeuAspLeuAlaGAspLysPheAsnGlnSerLeuGlnVal	809
Db	2458	ATAAGAAATGAAGTAAACATTTCTCGAGGACTCCCAAGAAATTTGAATAAAGCTCTTAAATA	2517

OY	810	ASHTTHRRAlaLeuIIleProLySGluIaAsnSerGIuGIuValPheLeuPheLySPro	829
Db	2518	AATACTTGTGGTCGATACCTACGAGCGCTGGCTCAGTAAAGCTTTGAATTTAAACCA	257
OY	830	GUaenIIeThrPheGluAsnGIYThrasPheubPheIIeAlaIIeGlnAlaValAspLys	849
Db	2578	GAACTTCTTAAATAGAAATGGTACGACATTTCTATATGTGCAATTCGAAGCATTCAGAA	265
OY	850	ValAspLeuLysSerGluIIeSerAsnIIleAlaArgValSerLeuPheIIeProGlnI	865
Db	2638	GCCATGTGCACCTCGAGAGGTTTCAACACATTCGACACAGCACTAATCTTATCTCCACAG	269
OY	870	ThrPro 871	
Db	2698	GAACCC 2703	
RESULT 5			
US-09-193-562D-31			
; Sequence 31, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; FILE REFERENCE: 16617.0052			
; CURRENT APPLICATION NUMBER: US/09/193, 562D			
; PRIOR FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065, 922			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 31			
; LENGTH: 2970			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-193-562D-31			
Alignment Scores:			
Pred. No.: 7.16e-198 Length: 2970			
Score: 1998.50 Matches: 415			
Percent Similarity: 63.38% Conservative: 163			
Best Local Similarity: 45.50% Mismatches: 279			
Query Match: 41.99% Indels: 55			
DB: 4 Gaps: 20			
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OY	2	GIYrPheLySserSerValPheIIeLeuIIleuHISLeuLeuGIuGIuValaLeuSer	21
Db	130	GGCTCTATTTCGACACCTGAACTTGTGACTCTCTCG-----GTTGCCCTTAAGT	177
OY	22	AsnSerLeu-----IIeGlnLeuAsnAsnAsnGIYrYrGluGIYIle	35
Db	178	TCAGACATCCCATTCCTCGGAGCGTGGAGCTACAGCTTCACGACATGGGTATATGATGTG	237
OY	36	ValValaIaIIeAspProAsnValaProGluAspGluThrIleGlnIleLysAsp	55
Db	238	CTCATTTGCAATTAATCCCTCAGAGTACCTGAGATGACGAATCAGAACTCATCTCAACATTAAGAA	297
OY	56	MetValThrGlnAlaSerLeuTyIleuPheGluIaThrGlyAsnArgPheTyrPheLys	75
Db	298	ATGATTAACCTGGAAGCTTCATTTTACCCTATTATATGCTACCAAGAAAGATATTTTTCAGA	357
OY	76	AsnValaIaIIeLeuIIleProGluThrTyPheLysIaAspTyrValaArgProLys	95
Db	358	AATATAAGATTTTATATCTTCGCCACATGGAAGAACTAAT---AATAACAGCAAAATATAAA	414
OY	96	LeuGIuThrTyrLysAsnAlaAspValaLeuValaIaGluSerThrProProGIYAsnAsp	115
Db	415	CAAGATATCATATGAAAGAAGGCAAAATGTCTACTAGTACGTACCTGATGTGGGACATATGAGAT	474
OY	116	GIuProTyThrGluGlnMetClyAsnGlySyluLysGlyGluArgIleHisLeuThr	135
Db	475	GATCCATACACCTACCATATACAGAGGCTGTGGAAAGGGGAAATATCATTCATTTTACCA	534

QY	489	LeuGlnSerLysGlyLeuThrLeuGlnIAsnSerGlnTrpPheIAsnGlyThrThrAlaLeu	508
Db	1597	CTTGAAGATGACAGGGGAAATATGTCAAACCTCACATCAATTTGAAAAACAGATGACTG	165
QY	509	AspSerThrValGlyLysAspThrLeuPheLeuLeuIleThrTrp---ThrTrgInProPro	527
Db	1657	GATAAATACGTGTGGGACAGACACTATGTTTCTAGTTACGTGGGACGGCTGGTCTCCG	1711
QY	528	GlnIleLeuLeuThrAspProSerGlyGlnLys-----GlnGlyGlyPheValValAsp	545
Db	1717	GGAATTATATATTTGATTCCTGGATGGAGAAATATCACAAATAATATTTTATCCAAAT	177
QY	546	LysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLys	565
Db	1777	CTAACCTTTTGGGACAGCTATGCTTTGGATTCTCAGAAACAGCTAAAGCTGGGACTGGACT	1833
QY	566	TyrSerLeu-----GlnAlaSerSerGlnIleThrLeuThrValThrSerArg	582
Db	1837	TTCACCCCTGAACAAATACCATCATATCTCTGCAACCCCTGAAAGAGCTAGCATCTCTCC	1894
QY	583	AlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrLysAspThrSer	602
Db	1897	GGCTCCAACTCAGCTGTGCCCCCAGCCACTGTGGAAAGCTTTGTGGAAAGACACCTTC	1955
QY	603	LysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeu	622
Db	1957	CATTTCCTCAATCCCTGATGATTTATATGCAATGTGAACAGGAAATTTATCCATTTCT	2011
QY	623	ArgAlaSerValThrAlaLeuIleGlnSerValAsnGlyLysThrValThrLeuGlnLeu	642
Db	2017	AATGCCACGTCTACTGCCACAGTTGAGCAGACAGCTGAGAACTCTGTACGGTGAGACTC	2076
QY	643	LeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyAlaTyrSerArgTyrPhe	662
Db	2077	CTTGATGATGAGGAGCGTGTGATGTTATATAAAAATGATGAAATTTACTCGAGGTATTT	2133
QY	663	ThrTrpTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyLysValAsn	682
Db	2137	TTCCTCTTGTGCTCAAAATGATGATATAGCTTGAAAGTGCAT-----GTCAT	2184
QY	683	AlaAlaArgArgArgValIleProGlnIle-----SerLysAlaLeuTyrIle	698
Db	2185	CACCTCTCCAGATTAAGACACCCAGCCACTATTCACAGGAGTCATGCTATGATATGA	2244
QY	699	ProGlyTrpIleGlnAspAspGluIleGlnTrpAsnProProArgProGluIleAsnLys	718
Db	2245	CCAGGTTACACAGCAAGCAAGTAAATTTCAATGATATGCTCCAAAGAAATCACTAGGCAGA	2304
QY	719	AspAspValGlnIleLysGlnValLysPheSerArgThrSerSerGlyLysPheVal	738
Db	2305	AATGAGAGAGAGCCGAATGCG---GCGTTTAGCCGAGTCAAGCTCAGAGAGCTCTTTTCA	2366
QY	739	AlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAsp	758
Db	2362	GTGCTGGGAGTTCCAGCTGGCCCCCAGCCCTGATGTGTTTCCACATGCAAAATTTATTGAC	2422
QY	759	LeuLysAlaGluIleHisGlyLysLeuIleAsnLeuThrTrpThrAlaProGlyAsp	778
Db	2422	CTGGAAAGCT---GTTAAAGTAAAGAGGAATACCTTATCTTGGACACACCTGAGAGA	2478
QY	779	AspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrLeuAsp	798
Db	2479	GACTTTGATCAGGGCCAGGCGTACACAGCTATGAATATGAATATGATTAAGTCTACAGAT	2538
QY	799	LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu	818
Db	2539	ATCCAAAGTATGCTTAAACAATGCTATTTGTGTAATATACATCAAAAGCAAAATCTCAGCAA	2598
QY	819	AlaAsnSerGlnGluValPheLeuPheLysProGlnAsnIleThrPheGlnAsnGlyThr	838
Db	2599	GCTGGCATCAGGAGATATTTACGTTCTCACCCCAATTTCCAGC-----AATGGACT	2652
QY	839	Asp-----LeuPheIleAlaIleGlnIle	846

FILING DATE: 06-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 2..685
US-09-224-110-8

Alignment Scores:
No.: 6,92e-131 Length: 878
Score: 1347.00 Matches: 256
Percent Similarity: 99.61% Conservative: 1
Best Local Similarity: 99.22% Mismatches: 0
Query Match: 28.30% Indels: 1
DB: Gaps: 0

US-09-049-696-41 (1-914) x US-09-224-110-8 (1-878)

QY 657 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg 676
DB 2 GCTACTCAAGGATTTTCACACTTATGACCAAGTGTAGATACAGTGTAAAAAGTCGG 61
QY 677 AlAlaLeuGlyGlyValAlaAsnAlaAlaArgArgValLleProGlnInserGlyAlaLeu 696
DB 62 GCTCTGGAGAGATTACAGCAGCAGAGAGAGATATACCCAGAGAGTGGAGACACTG 121
QY 697 TyrLleProGlyTyrPileGluAsnAspGluLleGlnTyrAsnProProArgProGluLle 716
DB 122 TACATACCTGGCTGATGATGAGATGATGAATATACATGGAATCCACCAAGACTGAAAT 181
QY 717 AsnLysAspAspValGlnHisLysGlnValLysPheSerArgThrSerGlyGlySer 736
DB 182 AATAAGGATGATGTTCAACACCAAGAGTGTCTTCAGCAAGAACATCCCGGAGGCTCA 241
QY 737 PheValAlaSerAspValProAsnAlaProLleProAspLeuPheProProGlyGlnLle 756
DB 242 TTGTGGCTTCGATGCTCCCAATGCTCCCATACCTGATCTCTCCGACCTGGCCAAATC 301
QY 757 ThrAspLeuLysAlaGluLleHisGlyLysSerLeuLleAsnLeuThrTyrPheAlaPro 776
DB 302 ACCGACCTGACGAGCGGAATTCACGGGGGCACTCATTAATCTGACCTGGACAGCTCCT 361
QY 777 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrLleLleArgLleSerThrSerLle 796
DB 362 GGGGATGATTATGACCATGGAACAGCTCCCAAGTATATATTCGATTAAGTACAAATAT 421
QY 797 LeuAspLeuArgAspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuLlePro 816
DB 422 CTTGATCTCAGAGACAGTTCATATGATCTCTCAAGTAATACACTCTCTCTCATCCCA 481
QY 817 LysGluAlaAsnSerGluLleValPheLeuPheLysProGluAsnLleThrPheGluAsn 836
DB 482 AAGGAGCCCAACTGAGAGAGATCTTTTGTAAACCGAATAACCTACTTTGAAAT 541
QY 837 GlyThrAspLeuPheLleAlaLleGlnAlaValAspLysValAspLeuLysSerGluLle 856
DB 542 GGCACAGATCTTTTCATGCTATTCAGGCTGTGATTAAGTGCATGTAATACAGAAATA 601
QY 857 SerAsnLleAlaArgValSerLeuPheLleProProGlnThrProProGluThrProser 876
DB 602 TCCACATTTGCACGAGTATCTTTTATCTCTCCACAGACTCCGCCAGACACCTAGT 661

QY 877 ProAspGluThrSerAlaProCys-ProAsnLleHisLleAsnSerThrLleProGlyLle 896
DB 662 CCGATGAAAGCGTCCTCTCTGCTATATATCATATCAACAGACACCATTCCTGCAAT 721
QY 896 eHisLleLeuLysLleMetTyrLysTyrPileGlyLleGluLeuGlnLeuSerLle 913
DB 722 TCACATTTTAAAAATATATGTGAAAGTGGGTAGAGAAATGCAAGTGTCAATA 773

RESULT 8
PCT-US95-07289-8
Sequence 8, Application PC/TUS9507289
GENERAL INFORMATION:
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Baln, Gillfillan, Cecchi,
STREET: Stewart & Olstein
CITY: Roseland
STATE: NJ

COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 878 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 2..685
PCT-US95-07289-8

Alignment Scores:

Pred. No.: 6,92e-131 Length: 878
Score: 1347.00 Matches: 256
Percent Similarity: 99.61% Conservative: 1
Best Local Similarity: 99.22% Mismatches: 0
Query Match: 28.30% Indels: 1
DB: Gaps: 0

US-09-049-696-41 (1-914) x PCT-US95-07289-8 (1-878)

QY 657 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg 676
DB 2 GCTACTCAAGGATTTTCACACTTATGACCAAGTGTAGATACAGTGTAAAAAGTCGG 61
QY 677 AlAlaLeuGlyGlyValAlaAsnAlaAlaArgArgValLleProGlnInserGlyAlaLeu 696
DB 62 GCTCTGGAGAGATTACAGCAGCAGAGAGAGATATACCCAGAGAGTGGAGACACTG 121
QY 697 TyrLleProGlyTyrPileGluAsnAspGluLleGlnTyrAsnProProArgProGluLle 716

Db 122 TACATACCTGGCTGGATTGAGATGATGAAATACAAATGGAATCCACCAAGACTGAAAT 181
Qy AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySer 736
Db 182 AATAAGGATGATGTTCAACACAGCAAGATGTTTCCACAGACATCTCTGGGAGGCTCA 241
Qy PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle 756
Db 242 TTGTGGCTCTGATGTCCTCAATGCTCCATACCTGATCTCTCCACCTGGCCAAATC 301
Qy 757 ThrAspLeuLysAlaGlnIleHisGlySerLeuIleAsnLeuThrTrpThrAlaPro 776
Db 302 ACCGACCTGAAGGGGAAATTCACGGGGAGCTCATTAATCTGACTTGGACACTCTCT 361
Qy 777 GLYASpAspArgAspHisGlyThrAlaHisLysTrpIleLeuArgIleSerThrSerIle 796
Db 362 GGGATGATTTATGACCATGAGACACCTCACAAGTATATCATTCGATAGACAAAT 421
Qy 797 LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro 816
Db 422 CTGTATCTCAGAGACAACTCAATGAATCTCTCAAGTGAATACAGCTCTCATCCCA 481
Qy 817 LysGlnAlaAsnSerGlnGlnValPheLeuPheLysProGluAsnIleThrPheGluAsn 836
Db 482 AAGGAAGCAACTCTGAGAGAGCTCTTTGTTAAACGAAACATTAATCTTTGAAAT 541
Qy 837 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerIle 856
Db 542 GGCAACAGATCTTTCATGCTATTCAGCTGTGATGAAGTCGATCAATCAACAAATA 601
Qy 857 SerAsnIleAlaArgValSerLeuPheIleProGlnIleProGlyIleProGlyIleProSer 876
Db 602 TCACAATATGACAGATCTTGTGTTATCTCTCCACAGACCTCCGACAGACACTAGT 661
Qy 877 ProAspGluThrSerAlaProCys-ProAsnIleHisIleAsnSerThrIleProGlyIle 896
Db 662 CCTGATGAAGCTGCTGCTCTGCTGCTAAATATCATATCAACACACCATCTCTGGCAT 721
Qy 896 eHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIle 913
Db 722 TCACATTTTAAATATATGATGGAAGTGGGTAGAGAACTCCAGTTGTCAATA 773
RESULT 9
US-09-221-298-34
; Sequence 34, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471
; CURRENT APPLICATION NUMBER: US/09/221.298
; CURRENT FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 401
; TYPE: DNA
; ORGANISM: Human
US-09-221-298-34
Alignment Scores:
Pred. No.: 1.67e-55 Length: 401
Score: 618.00 Matches: 130
Percent Similarity: 95.59% Conservativeness: 0
Best Local Similarity: 95.59% Mismatches: 0
Query Match: 12.99% Indels: 6
Gaps: 0
US-09-049-696-41 (1-914) x US-09-221-298-34 (1-401)
Qy 29 AsnAsnGlyTrpGluGlyIleValValAlaIleAspProAsnValProGluAspGluThr 48
|||||

Db 1 AACATGCGTATGAGGCACTTGTCTGTCCAATCGACCCCAATGTGCCAAGAAATGAAACA 60
Qy 49 LeuIleGlnGlnIleLysAspMetValThrGlnAlaSerLeuTrpLeuPheGluAlaThr 68
Db 61 CTCATTCACAAATAAAGACATGCTGACCCAGGATCTGTATCTTTGAAAGCTACA 120
Qy 69 GlyLysArgPheTrpPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLys 88
Db 121 GGAAGGCAATTTTATTCAAAAATGTCCTCAATTTGATTCCTGAAACATGGAAGCAAG 180
Qy 89 AlaAspTrpValArgProLysLeuGlnThrTrpLysAsnAlaAspValLeuValAla-Gl 108
Db 181 GCTGACTATGACACCAAACTTGAACCTACAAAAATGCTGATGTTCTGTGCTTGA 240
Qy 108 userThrProProGlyAsnAspGluProGlyThrGlnGlnMet-GlyAsnGlyGlyL 128
Db 241 GCTACTCTCTCCAGTAAATGATGAACCTTACCTGAGACAGATGGGGCAACTGTGAGAGA 300
Qy 128 ys-GlyGluArgGly-HisLeuThrProAspPheIleAlaGlyLysLysLeuAla-Glu 147
Db 301 AGGGGTGAAGAGATCCACCTCCTCCTGATTTCTTCAGSAAAAAGTTAGCTGAAT 360
Qy 147 yrglyProGlnGly-ArgAlaPheValHisGluTrp 158
Db 361 ATGACACAAAGGTAAAGGCAATTTGTCATGATG 396
RESULT 10
US-09-385-982-23
; Sequence 23, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385.982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328.111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117.393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098.639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 576
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)..(576)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-23
Alignment Scores:
Pred. No.: 6.39e-45 Length: 576
Score: 519.00 Matches: 115
Percent Similarity: 73.40% Conservativeness: 23
Best Local Similarity: 61.17% Mismatches: 48
Query Match: 10.91% Indels: 5
Gaps: 2
US-09-049-696-41 (1-914) x US-09-385-982-23 (1-576)
Qy 620 ProIleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr 639
Db 2 CCTGTTCTTGAGCCAAATGATGCTCTTCAATGATCAGAAATGACATACAGAACTT 61
Qy 640 LeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValLysThr 659
Db 62 TTGGAACCTTTGGATTAATGATGAGCGCTGATCTTTCAAGAAATGATGAGTCTACTCC 121
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Qy 660 ArgTYRphEThrTYRAspThrAsnGlyArgTYRSeValValArgAlaLeuGly 679
Db 122 AGGTATTATACAGCATATACAGAAATAGCATATAGCTTAAAGTTCGGCTCATGGA 181
Qy 680 GlyValAlaAlaAlaArgArgValAlaIleProGlnGlnSerGlyAlaLeuTYRlePro 699
Db 182 GGAGCAAAACACTGCGAGCTTAAATTAACGCTCCACTGAATAGACCCGCGACATACCA 241
Qy 700 GlyTYRPIleGlnAsnAspGluIleGlnTYRAsnProProArgProGluIleAsnLysAsp 719
Db 242 GGCTGGGTGTGACACGGGAATTTAGACAAACCCCGCAAGACCTGAATTTGAT---GAG 298
Qy 720 AspValGlnHisLysGlnValLysPheSerArgThrSerSerGlyLysSerPheValAla 739
Db 299 GATACACAGACACACCTTGGAGGATTTCCAGCGAACATCCGAGAGTGCATTTGGGTGA 358
Qy 740 SerAspValProAsnAlaProIleProAspIleuPheProGlyGlnIleThrAspLeu 759
Db 359 TCACAAAGTCCCAAGCTTCTTG-CCTGACCAATACCCACCAAGTCAAAATCACAGACCTT 417
Qy 760 LysAlaGluIleHisGlyLysSerLeuIleAsnLeuThrTYRThrAlaProGlyAspAsp 779
Db 418 GATGCCACAGTTCATATAGATAAGATATT---CTTACATGACAGACACGAGAGATATT 474
Qy 780 TYRAspHisGlyThrAlaHisLysTYRleIleArgIleSerThrSerIleuAspLeu 799
Db 475 TTTGATGTTGAAAGTTCACGTTATATCATATAGAAATAT-CCGATATTCTTGACTA- 532
Qy 800 ArgAspLysPheAsnGlnSerLeu 807
Db 533 AGAGACAGTTTGTGATGATCTCTTA 556

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RESULT 11

```

US-09-385-982-25
; Sequence 25, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 595
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(595)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-25

```

Alignment Scores:

```

Pred. No.: 1,23e-39 Length: 595
Score: 468.50 Matches: 97
Percent Similarity: 70.35% Conservative: 24
Best Local Similarity: 56.40% Mismatches: 48
Query Match: 9.84% Indels: 3
DB: 4 Gaps: 3

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US-09-049-696-41 (1-914) x US-09-385-982-25 (1-595)

```

Qy 698 IIEProGlyTYRPIleGlnAsnAspGluIleGlnTYRAsnProProArgProGluIleAsn 717
||||| ||||| ||| ||||||||| ||||||||||| |||||||||

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Db 3 ATACACAGCTGGGTAGTGAACGGGAAATTTGAAGCAAAACCCCGCAAGCTGAAATTCAT 62
Qy 718 LysAspAspValGlnHisLysGlnValLysPheSerArgThrSerSerGlyLysPhe 737
Db 63 ---GAGGATACACAGACACACCTTGGAGGATTTACGCGGAAGCATCCGAGAGTGATTT 119
Qy 738 ValAlaSerAspValProAsnAlaProIleProAspIleuPheProGlyGlnIleThr 757
Db 120 GTGGTWTCCAAAGTCCCAAGCTTCCCTGCTGACCAATACCCCAAGTCAAAATCACCA 179
Qy 758 AspLeuLysAlaGluIleHisGlyLysSerLeuIleAsnLeuThrTYRThrAlaProGly 777
Db 180 GACCTTGATGTCACACAGTATACAGATTAATATT---CTTACATGACAGACACACAGCA 236
Qy 778 AspAspTYRAspHisGlyThrAlaHisLysTYRleIleArgIleSerThrSerIleu 797
Db 237 GATTAATTTGATGTTGAGAAAGTTCACAGCNTATATCATATAGATAGTCAAGTATTCTT 296
Qy 798 AspLeuArgAspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIleProLys 817
Db 297 GATCTAAGAGACAGTTTNTGATGATGCTCTTCAAGTAAATACATCATCTGTCACCAAG 356
Qy 818 GluAlaAsnSerGlnGluValPheLeuPheLysProGluAsnIleThrPheGlnGly 837
Db 357 GAGGCCAACTCCAAAGACCTTGCTTAAACCGAAATATCTCAGAAAGAAATGCA 416
Qy 838 ThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSer 857
Db 417 ACCCACTATTTATTTGCTTAAAGTATAGATAGANCA---ATTGACATCNAAGTNTC 473
Qy 858 AsnIleAlaArgValSerLeuPheIleProProGln 869
Db 474 CACATTGNACAAGTNACTTGTGTTATCCCTCAGCA 509

```

RESULT 12

```

US-09-385-982-24/C
; Sequence 24, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(618)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-24

```

Alignment Scores:

```

Pred. No.: 2,29e-37 Length: 618
Score: 447.00 Matches: 102
Percent Similarity: 67.66% Conservative: 34
Best Local Similarity: 50.75% Mismatches: 57
Query Match: 9.39% Indels: 6
DB: 4 Gaps: 6

```

US-09-049-696-41 (1-914) x US-09-385-982-24 (1-618)

Alignment Scores:	1,02e-34	Length:	611
Pred. No.:	421.50	Matches:	93
Score:	64.41%	Conservative:	21
Percent Similarity:	52.54%	Mismatches:	44
Best Local Similarity:	8.86%	Indels:	19
Query Match:		Gaps:	3
DB:	4		
US-09-049-696-41 (1-914) x US-09-385-982-27 (1-611)			
QY	620	ProilleuAurGalaserValThralaleuilegluSerValaasn-GlylysthrValTh	6399
DB	2	CCTGTCCTTGAGGCAATAGTACTGCTTCTTCAATACAGAGATGGAGACTACAGAGT	61
QY	639	rleuGluleuLeuaspasnGlyalaglyalaaSPalThrlyksaspagelyValTyse	6599
DB	62	TTTGGAACCTTTGGATATAGTCGACGCGCTGATCTTTCAGAAATATGAGTCTCTC	121
QY	659	rArglyrphethrThryrAspThraSPThraNGlyArgTySerValysValaArgalaleuGl	6799
DB	122	CAGGATTTTACACCATATACAGAAAATGCGATATATGCTTAAAGTTGCGGCTCATGG	181
QY	679	YglYValasnaIlaaIaargatArgValIleProGlnGlnSerSerlyalaleuTyrllepr	6999
DB	182	AGGAGCAAAACACTGCCAGGCTTAATATTAAGCCCTCCACTGATATGAGCCGCTACATAC	2411
QY	699	oGlyTrpIleGluasnaspGluileGlnTrpAsnProProArgProGluIleasnlysas	7199
DB	242	AAGCTGGGTAGTGAACGGGGAATTTGAAGCAAAACCCGCAAGACTGAAATTTGAT---	288
QY	719	pAspValGlnHislysglnValCySPheserArgThSerSerGlylySerPheValAI	7399
DB	299	GGATCTCTCAGACCACTTGGAGATTTTCAGCCGGAACAGCATCCGAGAGTGCATTTGCT	358
QY	739	aSerAsp-ValProasnaIaProIleProAspIleuPheProProGlyIleThraspL	7599
DB	339	ATCACAAAGTCCCAACCTTCTTCCTTGCTGACCAATACCCCAAGTCMAATCACACACC	418
QY	759	eulysalaglu-----IleHisglylySerIleuleasnleut	772
DB	419	TTGATGCCCAAGTCATTAGGATAAATATTTCTTACATGCA-----	459
QY	772	hTrpThralaProGlyAspAspIlyrAspHisGlyThralaHislys	787
DB	460	-----NGCCCANGAATATATTTGTATTTNGNAAGATCACCGT	498
RESULT 14			
US-09-385-982-33			
Sequence 33, Application US/09385982			
Patent No. 6262334			
GENERAL INFORMATION:			
APPLICANT: ENDEGE, WILSON O., ET AL.			
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION			
TITLE OF INVENTION: PRODUCTS: II			
FILE REFERENCE: CCDNA-260XX			
CURRENT APPLICATION NUMBER: US/09/385,982			
CURRENT FILING DATE: 1999-08-30			
EARLIER APPLICATION NUMBER: 09/328,111			
EARLIER FILING DATE: 1999-06-08			
EARLIER APPLICATION NUMBER: 60/117,393			
EARLIER FILING DATE: 1999-01-27			
EARLIER APPLICATION NUMBER: 60/098,639			
EARLIER FILING DATE: 1998-08-31			
NUMBER OF SEQ ID NOS: 544			
SOFTWARE: FastSeq for Windows Version 3.0			
SEQ ID NO 33			
LENGTH: 742			
TYPE: DNA			
ORGANISM: Homo sapiens			
FEATURE:			
NAME/KEY: misc_feature			
LOCATION: (1)...(742)			
OTHER INFORMATION: n = A,T,C or G			

US-09-385-982-33

Alignment Scores:

Pred. No.:	1,42e-29	Length:	742
Score:	373.50	Matches:	82
Percent Similarity:	74.07%	Conservative:	18
Best Local Similarity:	60.74%	Mismatches:	33
Query Match:	7.85%	Indels:	5
DB:	4	Gaps:	2

US-09-049-696-41 (1-914) x US-09-385-982-33 (1-742)

```

QY 698 ILEPGLIYTPRIEGLUASNSAPGUILLEGINTTPASNPBROAPROGUILLEASN 717
DB 3 AATACCGGTGGGTAGTACGAGGGAATTTGAGCAAAACCCGCCAAGACCTGAAATTTGAT 62
QY 718 LYSASPAPVALGlnHisLysGlnValCysPheSerArgThrSerGlySerPhe 737
DB 63 ---GAGGATACACAGCCACCTTGAGGATTTAGCCGACACAGATCCGAGGTGATTT 119
QY 738 VALALASerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThr 757
DB 120 GTGGTATCACAGTCCCAAGCCTCCCTGCTGACCAATACCCACAGTCAATCACA 179
QY 758 ASPLEULYALAGLULEHISGLYGLYSERLEULEASNLEUTHRTTPHRLAIPROGLY 777
DB 180 GACCTTGATGCCACAGTTCATGAGATTAAGATTATT---CTTACATGACAGCACCGA 236
QY 778 ASPAPTYRASPHTISGLYTHRALAHISLYSTYRILEARGTLESERTHRSERILEAU 797
DB 237 GATTAATTTGATCTTGAAAAGTTCAACGTATATCATTAAGATAAGTCAAGTATCTT 296
QY 798 ASPLEUARGASPSPHSANGIUSERLEUGINVALASNTHRTTHRALALEUILEPROLYS 817
DB 297 GATCTAAGAGACAGTTTGTGATGCTCTTCAAGTAATCT-ACGTATCTGCA-CCAAAG 354
QY 818 GLIALASnSerGlnGluValPheLeuPheLysProGluAsnIle 832
DB 355 GAGGCCAAGCTTCAGGAAAGCTTTCATTAA-CCANAAAAATATT 398

```

RESULT 15

US-09-193-562D-14

; Sequence 14, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 14

; LENGTH: 335

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Oligonucleotide probe

US-09-193-562D-14

Alignment Scores:

Pred. No.:	2,15e-12	Length:	335
Score:	203.00	Matches:	40
Percent Similarity:	71.95%	Conservative:	19
Best Local Similarity:	48.78%	Mismatches:	23
Query Match:	4.27%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-41 (1-914) x US-09-193-562D-14 (1-335)

QY 786 HISLYSTYRILELARGLESERTHRSERILEUASPLeuARGASPSPHSANGI 805

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DB 2 AACAGCTACATTAATAGAAATTAAGTAAAGTTTCATGATCGTCMAAGATTTTGACAAAT 61
QY 806 SerLeuGlnValAsnThrThrAlaLeuIleProLysGlnAlaAsnSerGlnGluValPhe 825
DB 62 GCGACTTTAGTGAATCTTCTAATCTTAATRCCTAAGAGGCCGATCAAAAGAAATTTT 121
QY 826 LeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGln 845
DB 122 GAATTTAAGCAGAACATTTTAAAGTAGAAGAAATGGCACAATTTCTATATTTCAGTCCAA 181
QY 846 AlaValAspLysValAspLeuLysSerGlnIleSerAsnIleAlaArgValSerLeuPhe 865
DB 182 GCCATCAACGAAAGCCATCTCATCTCAGAGGTTTCACATTTGTACAAACCAATCAATTT 241
QY 866 IlePro 867
DB 242 ATTCTT 247

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Search completed: October 17, 2002, 19:23:09
 Job time : 96 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: October 17, 2002, 17:08:50 ; Search time 19 Seconds
(Without alignments)
1175.000 Million cell updates/sec

Title: US-09-049-696-41

Perfect score: 4759

Sequence: 1 MGFPEKSSVFILHLLEGAL.....GIHLKIMKIGELQSLIA 914

Scoring table: BL0SUM62

Gapped 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PTCUS.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	4753	99.9	914	US-09-193-562D-28
2	2462.5	51.7	903	US-09-193-562D-46
3	2328	48.9	905	US-09-193-562D-2
4	2324.5	48.8	902	US-09-193-562D-34
5	2258.5	47.5	1000	US-09-193-562D-30
6	2125	44.7	795	US-09-193-562D-11
7	2125	44.7	821	US-09-193-562D-12
8	1987.5	41.8	943	US-09-193-562D-32
9	1203	25.3	228	US-08-469-667-9
10	1203	25.3	228	US-09-224-110-9
11	1203	25.3	228	PCT-US95-07289-9
12	947.5	19.9	342	US-09-193-562D-13
13	408	8.6	203	US-09-193-562D-3
14	143	3.0	2411	US-09-268-347-36
15	140.5	3.0	1529	US-08-728-470-10
16	140.5	3.0	1529	US-08-719-641-10
17	138.5	2.9	1600	US-08-617-697-10
18	137	2.9	1912	US-08-409-995-4
19	137	2.9	1912	US-08-685-467-4
20	137	2.9	2353	US-09-377-155-33
21	137	2.9	2353	US-08-913-942-4
22	137	2.9	2353	US-09-669-974-33
23	137	2.9	2354	US-09-268-347-47
24	130	2.7	1848	US-08-296-791-6
25	130	2.7	1848	PCT-US95-10661A-6
26	128	2.7	1536	US-08-038-682-2
27	128	2.7	1536	US-08-302-832-2

28	128	2.7	1536	2	US-08-530-198-2	Sequence 2, Appl1
29	128	2.7	1536	2	US-08-469-880-2	Sequence 2, Appl1
30	128	2.7	1536	2	US-08-728-470-2	Sequence 2, Appl1
31	128	2.7	1536	2	US-08-617-697-2	Sequence 2, Appl1
32	128	2.7	1536	4	US-08-719-641-2	Sequence 2, Appl1
33	127.5	2.7	1702	4	US-08-296-791-5	Sequence 5, Appl1
34	127.5	2.7	1702	4	PCT-US95-10661A-5	Sequence 5, Appl1
35	121	2.5	710	4	US-09-171-461-16	Sequence 16, Appl1
36	121	2.5	1541	4	US-08-296-791-3	Sequence 3, Appl1
37	121	2.5	1541	5	PCT-US95-10661A-3	Sequence 3, Appl1
38	118.5	2.5	599	3	US-09-045-632-28	Sequence 28, Appl1
39	118.5	2.5	642	3	US-09-045-632-35	Sequence 35, Appl1
40	118.5	2.5	818	3	US-09-045-632-25	Sequence 25, Appl1
41	118.5	2.5	861	3	US-09-045-632-34	Sequence 34, Appl1
42	118.5	2.5	918	3	US-09-045-632-21	Sequence 21, Appl1
43	118.5	2.5	961	3	US-09-045-632-33	Sequence 33, Appl1
44	118.5	2.5	1018	3	US-09-045-632-16	Sequence 16, Appl1
45	118.5	2.5	1061	3	US-09-045-632-32	Sequence 32, Appl1

ALIGNMENTS

RESULT 1									
US-09-193-562D-28									
Sequence 28, Application US/09193562D									
Patent No. 6309857									
GENERAL INFORMATION:									
APPLICANT: Pauli, Benedicht U.									
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium									
FILE REFERENCE: 18617.0052									
CURRENT APPLICATION NUMBER: US/09/193, 562D									
CURRENT FILING DATE: 1998-11-17									
PRIOR APPLICATION NUMBER: US/60/065, 922									
PRIOR FILING DATE: 1997-11-17									
NUMBER OF SEQ ID NOS: 47									
SEQ ID NO 28									
LENGTH: 914									
TYPE: PRT									
ORGANISM: Homo sapiens									
US-09-193-562D-28									
Query Match									
Best Local Similarity 99.9%; Score 4753; DB 4; Length 914;									
Matches 912; Conservative 2; Mismatches 0; Indels 0; Gaps 0;									
QY	1	MGPEKSSVFILHLLEGALNSLQLNNNGYEGIVAIDPNVDEDETLIQIKDMYQA	60						
DB	1	MGPEKSSVFILHLLEGALNSLQLNNNGYEGIVAIDPNVDEDETLIQIKDMYQA	60						
QY	61	SLYFEATGKRFYKRNVALIPETWTKADYVRPKLEYKNADYLVASTPPGNDPEYTE	120						
DB	61	SLYFEATGKRFYKRNVALIPETWTKADYVRPKLEYKNADYLVASTPPGNDPEYTE	120						
QY	121	QMGNGGEGERILHTPPDIACKKLAIEYGPQRAKAEHNAHLRMGVDPDYNDEKPYLSNG	180						
DB	121	QMGNGGEGERILHTPPDIACKKLAIEYGPQRAKAEHNAHLRMGVDPDYNDEKPYLSNG	180						
QY	181	RIQAVRCAGITGTNNVKKCGGSCYTRCFNNKTYGLYEGCFVLQSRQTERASIMFA	240						
DB	181	RIQAVRCAGITGTNNVKKCGGSCYTRCFNNKTYGLYEGCFVLQSRQTERASIMFA	240						
QY	241	QHVDSIVEFCTEQHNHKNKAPKQKCNLSTWEYIRSDSEPKTTPPTTQPPNPFSLL	300						
DB	241	QHVDSIVEFCTEQHNHKNKAPKQKCNLSTWEYIRSDSEPKTTPPTTQPPNPFSLL	300						
QY	301	QIGRIYCLVLDKSGSMATGNRLRNQAGOLFLOIYELGSMGMYTFSAAHVQSELI	360						
DB	301	QIGRIYCLVLDKSGSMATGNRLRNQAGOLFLOIYELGSMGMYTFSAAHVQSELI	360						
QY	361	QINGSDPDLAKRLPAAASGTSICSGLRSAFTYIRKKYPTDSEITVLTDGEDNTISG	420						
DB	361	QINGSDPDLAKRLPAAASGTSICSGLRSAFTYIRKKYPTDSEITVLTDGEDNTISG	420						

Db 361 QINSGSDRDLAKRLPAAASGGSITSICGLRSAPFVIRKKYPTDGSSEIVLLTDGEDNTISG 420
Qy 421 CENEGKOSGAIHTHTVALGSPAAQELBELSKMTGGLQTYASDOVONNGLLDAGALSSGNG 480
Db 421 CENEGKOSGAIHTHTVALGSPAAQELBELSKMTGGLQTYASDOVONNGLLDAGALSSGNG 480
Qy 481 AVSORSIOLESKGLTLQNSQNMNGTVIVDSIVGKDTLFLITWTPPOILLMDPSGQKOG 540
Db 481 AVSORSIOLESKGLTLQNSQNMNGTVIVDSIVGKDTLFLITWTPPOILLMDPSGQKOG 540
Qy 541 GGVVAKNKMALQIPLGAKVGTWKYSIQASSQTLTLVTSASNAATLPPIVTSKTNKD 600
Db 541 GGVVAKNKMALQIPLGAKVGTWKYSIQASSQTLTLVTSASNAATLPPIVTSKTNKD 600
Qy 601 TSFSPSPVLYVNIROGASPIIRASVTALIESVNGKTVLELLDNGAGADATKDDGVYSR 660
Db 601 TSFSPSPVLYVNIROGASPIIRASVTALIESVNGKTVLELLDNGAGADATKDDGVYSR 660
Qy 661 YFTYVDNGRYSVKVRAALGVNAARRRVIPQSGALYIPGWIENDEIQNPPREINKKD 720
Db 661 YFTYVDNGRYSVKVRAALGVNAARRRVIPQSGALYIPGWIENDEIQNPPREINKKD 720
Qy 721 VOHKOVCSRTSSGGSFVASDVPNAPIPDLFPPGQITDLKAIHGSGLINLTWTAAGDY 780
Db 721 VOHKOVCSRTSSGGSFVASDVPNAPIPDLFPPGQITDLKAIHGSGLINLTWTAAGDY 780
Qy 781 DHGTAHKYIIRISTILDRKFNSISQVNTALIPKEANSEVEFLFKENITFENGTDL 840
Db 781 DHGTAHKYIIRISTILDRKFNSISQVNTALIPKEANSEVEFLFKENITFENGTDL 840
Qy 841 FTAIDAVDKVLDKSEISNARVSLIPQTPPETSPDETSAFCPNIHINSTITPGIHILK 900
Db 841 FTAIDAVDKVLDKSEISNARVSLIPQTPPETSPDETSAFCPNIHINSTITPGIHILK 900
Qy 901 IMMKNIGELQSLIA 914
Db 901 IMMKNIGELQSLIA 914

RESULT 2
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
; OTHER INFORMATION: 31026)
US-09-193-562D-46

Query Match 51.7%; Score 2462.5; DB 4; Length 903;
Best Local Similarity 55.4%; Pred. No. 3,1e-205;
Matches 494; Conservative 139; Mismatches 233; Indels 25; Gaps 13;

Qy 1 MGPFRSVFILLHLLEGALNSLIQLNNGYEGIVAVIDPVNPEDETLIOQIKDMATQA 60
Db 1 MVRPLVLFLHLHLPG-MKSSMVLINNGYDGIYALINPSPDEKLIQNKEMVTEA 59
Qy 61 SLYLEATGKRYFKVAVAILPEITWTKADYVRPKLEYTKNADVLYAESTPGENDEPYTE 120
Db 61 SLYLEATGKRYFKVAVAILPEITWTKADYVRPKLEYTKNADVLYAESTPGENDEPYTE 120

Db 60 STYLFHAATKRRVYFRNVSILLPMTWKSSEXYLMPROESYDAQEVIVANPYLKHGDDPYTL 119
Qy 121 QMGNGCEKERIHLTPDFIAGKLLAEYGOGRAPFVEMAHLEMGVFEDEYNDEKLYLS-N 179
Db 120 QYGRGGEKQYIHTFPNELLTNLPLIYSGRGRAPFVEMAHLEMGVFEDEYNDEKLYLSR 179
Qy 180 GRIQAVRCSAGITGNVYKCKGSGCYTKCTFNKVTGLYKGECEPVLQSRQTEKASIME 239
Db 180 NTEATRCSTHITGNVYKCKGSGCYTKCTFNKVTGLYKGECEPVLQSRQTEKASIME 239
Qy 240 AOHVDSIYFECTEOHNNKAPKQOKCLBSTWEVIRDSDEKFTPTPT--TQPPNPF 297
Db 240 MSLHSVTEFECTEKNHAPLQNMCKGKSTWVIMNSTPFTQNTSPTEKNNPPTQPT 299
Qy 298 SLLOIGORIVCLVLRKSGMATGNRLNRLNQGLFLQTYELGSMVGVNTPDSAAHVS 357
Db 300 SILKSKQRYVCLVLRKSGMATGNRLNRLNQGLFLQTYELGSMVGVNTPDSAAHVS 359
Qy 358 ELIOINSGSDRDLAKRLPAAASGGSITSICGLRSAPFVIRKKYPTDGSSEIVLLTDGEDN 416
Db 360 NLTKITDDRVENITANLPOEANGGTSICRGLKAGFOALIQSGSTGSEIILLTDGEDN 419
Qy 417 TISGGENEYKOSGAIHTHTVALGSPAAQELBELSKMTGGLQTYASDOVONNGLLDAGALS 476
Db 420 EIHSCIEEKQSGVLIHTVALGSPAAQELBELSKMTGGLQTYASDOVONNGLLDAGALS 477
Qy 477 SCNGAVSORSIOLESKGLTLQNSQNMNGTVIVDSIVGKDTLFLITWTPPOILLMDPSG 536
Db 478 SRSGSTIQTDLKESKALATEKKNVNGTVPYDSTIGNTFEYVWTKIKPELLDQDPG 537
Qy 537 Q--KGGFVYDK-NTKMAYLQIPGIAKVTWKYSL--QASSQTLTLVTSASNAATLP 590
Db 538 KRYKTSDFEKEDLINTHSARLIPGIAETGWTWYSLNNNASPOLITLVYTTBARSPYTP 597
Qy 591 ITVTSKTNKDTSKPSPVLYVNIROGASPIIRASVTALIESVNGKTVLELLDNGAGAD 650
Db 598 VTATAHMONATHTSPVLYVNIROGASPIIRASVTALIESVNGKTVLELLDNGAGAD 657
Qy 651 ATKDGVYSRYFTYVDNGRYSVKVRAALGVNAARRRVIPQSGALYIPGWIENDEIQN 710
Db 658 ATKDGVYSRYFTYVDNGRYSVKVRAALGVNAARRRVIPQSGALYIPGWIENDEIQN 717
Qy 711 PPREINKDDVOHKOV-CSSRTSSGGSFVASDVPNAPIPDLFPPGQITDLKAIHGSGL 766
Db 718 PPREINKDDVOHKOV-CSSRTSSGGSFVASDVPNAPIPDLFPPGQITDLKAIHGSGL 774
Qy 767 SLINLTWTAAGDYDHGTAHKYIIRISTILDRKFNSISQVNTALIPKEANSEVEFL 826
Db 775 --TQSWTAPANVLDKGRANSYIIRISKSFLLQKDFDNATLVNTSSLKPKRAGSDENFE 832
Qy 827 FKPENTFENGTDLFLAIDAVDKVLDKSEISNARVSLIPQTPPETSPDETSAFCPN 877
Db 833 FKPENTFENGTDLFLAIDAVDKVLDKSEISNARVSLIPQTPPETSPDETSAFCPN 880

RESULT 3
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown

Db 770 -GDYIHLTWAPGKVLNDGNRAHRIYIIRMSQHPDLQEDFNNAATLVNASSLIEKAGSKRA 828
Qy 825 ELFKRENTFEFGDPLFLIAQAVDKLSEISNIARVSLFIPQTPPTPPDEISAC 884
Db 829 FRKPEIRKIAIGDIOLYTAIQADNEASLTSEVSNTA-----QAVKLTSLEDISALG 880
Qy 885 PNII-INSTIPGIIHL 899
Db 881 DDISAISMTIMGLTVI 896

RESULT 5
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Paul, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30

Query Match 47.5%; Score 2258.5; DB 4; Length 1000;
Best Local Similarity 51.7%; Pred. No. 2e-187;
Matches 466; Conservative 140; Mismatches 253; Indels 43; Gaps 13;

Qy 4 FSSSFILHLLEGALSLSLIQNNNGEGIVVAIDPNVPEDETLIQIKMVTQASLY 63
Db 3 FSLKILFLSLLSPLVLSLVTNNNGYDGIYAIINPSVPEDEKLQIKEMVTQASTH 62
Qy 64 LEFATGKRPYKFNVAIILPETWTKADYVRPKLETYKKNADVLAESTPGNDPEYEQMG 123
Db 63 LFHAKQRAYFPNNVSIILIPMTKSKSEYILPKQETTDQADVIADLYLKYGDPTLLQYG 122
Qy 124 NCGEGERIHLTPDFIAGCKLAIEYGPGRAFVEMAHLMRGVFEDEVNDEKPYLS-NGRI 182
Db 123 QCGDGQYIHFTPNFLTFNNLATYGRKGVFVGHNAHLRMGVFEDEVNDQPYISRNNT 182
Qy 183 QAVRSAGITGNNVKKQCGGSCYTRKCTFNKVTGLYEKGEFVLQSRQTEKASTMFAQH 242
Db 183 EATRCSTRITVYMWINECKGASCIARPFRRDSQGTGLYEAKCTFIPRRSQTAKESIVFMON 242
Qy 243 VDSIEFECTEONHNKEAPRKONKCNLRSTWEVIRDSDEDFKTTPTMT--TQPNPTFSILQ 301
Db 243 LDSVFEFCTEKHNKEAPRLYKMCNHNSTWDVIMSSDFQHLSPTEINLFRPTFSILK 302
Qy 302 IGQRIIVCLVLDKSGSMATGNRLNRLNQAQFLQLQVELSGVWGVATPDSSAAHVOSLIQ 361
Db 303 SKQRYVCLVLDKSGSMNEDRLFRMNOAAELYLQIIEKSGLVGLVTFDSFAKIDSKLIK 362
Qy 362 INSGSDRDTLAKRLPAASGSGTISGLRSATVI-RKKYPPDGSFVLLTGEDNTISG 420
Db 363 IIDDTYOKITRANLPQEDDGTSGICRGLKAGFOALPQSNQSTFGSBIILLTGEYEQLSQ 422
Qy 421 CFNEYKSGAIIHTVALGSAOELBELSKMTG-----GLQTVAS 460
Db 423 CFGEYKSGVYHTITALGSADELETLISNMTGLHKHGYTSSYSAGKFTICGHRFTAH 482
Qy 481 DOVONNGILDAFGALSGAVSORSIOLESKGLTLQNSOMNNGTVIYDVGKDTLELI 520
Db 483 KNI--NGILDAFSRISSSGSGISQALQLESKTLNIPAKKWTNGVVPDSTVRNPTSFV 540
Qy 521 TWITPQIILMDPSGQ-----OGGFVVDKNTKMAIYLQIPGIKVGITWKSILQ---AS 571

Db 541 TWITQIPALIILODPKGRKTYTSDFOEG---ELINISARLIRIGIAETGIWTSVRNHTK 597
Qy 572 SQTLLITVSRASNNTPITVTSKTNKQTSKFPSPPLVYANIRQASPIILASVTALE 631
Db 598 SOLTLVMTTRARSPPTLVATASHMOMTAHPSPVIAVACVSGQFLDINTVTAILE 657
Qy 632 SVNGKVTLELDNGAGADATKDDGYRSRYFTYDNGRYSVKVRALGCVNARRRVIPO 691
Db 658 NEGHQVITLELDNGAGADSVKANDGYISRYFTDYGNGRSLKVLTLQAKRNA--RLSQ 715
Qy 692 QSGALYIPGWINDEIOWNPPPEINKDDYQHKQV-CESRTSSGGSFVASDV-PNAPIPD 749
Db 716 QNKALYVPRYANNGKILNPSKPEVY--DDVEGAQDDDFSLRTSGSFYSGVPPGNHMQ 774
Qy 750 LPPPGITDLKAEIIGSSLIINTLTWTAAPGDYDGHGTAHKYIIRISTISLDRKFNSLQV 809
Db 775 VFSFGKIVLEAKFOGDH-TQLSWTRAPGVLDKGRASSTIIRISKHFLLQEDFKAALI 833
Qy 810 NTVALIPKANSSEVYLFKPNITFENGTDLEIAQAVDKLSEISNIARVSLFIPQ 869
Db 834 NTSGLIPKPGSVESPEFKPEPSKIENGTFYIAQAIHEANVTSEVSNIAQATNFIPO 893
Qy 870 TP 871
Db 894 EP 895

RESULT 6
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Paul, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Query Match 44.7%; Score 2125; DB 4; Length 795;
Best Local Similarity 53.8%; Pred. No. 5.7e-176;
Matches 425; Conservative 125; Mismatches 224; Indels 16; Gaps 11;

Qy 8 VETLIHLLEGALSLSLIQNNNGEGIVVAIDPNVPEDETLIQIKMVTQASLYFA 67
Db 8 IIFLTLHLPG--MKSSMVLINNGYDGIYAIINPSVPEDEKLQIKEMVTASTYLFA 66
Qy 68 TGRKRPFKVVALIIPETWTKADYVRPKLETYKKNADVLAESTPGNDPEYEQMGNGCE 127
Db 67 TKRRYFRVNSLIIIPMTKSKSEYILPKQESTYDQADVIANYLYLKGDDPTLLQGRGCE 126
Qy 128 KGERIHLTPDFIAGCKLAIEYGPGRAFVEMAHLMRGVFEDEVNDEKPYLS-NGRIQAVR 186
Db 127 KKKYIHFTPNFLTTNNFHYSGRGVFEVEMAHLMRGVFEDEVNDQPYFISKRNTEAR 186
Qy 187 CSAGITGINVY-KKQCGGSCYTRKCTFNKVTGLYEKGEFVLQSRQTEKASTMFAQVDS 245
Db 187 CSTHTIGIIVYFKKCGGSCITSLCRDSQGTGLYEAKCTFIPKKSQTAKESIMFMSLS 246
Qy 246 IYFECTEONHNKEAPRKONKCNLRSTWEVIRDSDEDFKTTPTMT--TQPNPTFSILQ 303
Db 247 VTEFCTEKHNKEAPRLKMCNHNSTWDVIMNSVDFONTSPTEINPPTHFTFSILSK 306

[illegible]

Db	127	KGKYLHFPNPLLTNNHFIYSGRGVFLVHEMAHLNGGIFDEVNVDQPFYISKNNLTIAFR	186
Qy	187	CSAIGTGVNV- KRCOGSSCYTKRCTFNKVTGLYKKGCEFYLOSRQTERKASIMFAOHYDS	245
Db	187	CSHTITGVNVFKKPCGSGCITSLCRBDSQTLGYEAKCTFLPKKSQTAKESIMFMPSHS	246
Qy	246	IYEFTEQNHKREANRKNOKCNLRSTHEVIRDSDEKFTKTPMT--TQPNPTFSLDQG	303
Db	247	YVEFTEKTHNTEAVNLNKKMCKNGKSTWYDVMNSVDFOPTSPTEKNPPTHFFPSLASK	306
Qy	304	QRYVCLVDRKSSGMATGNRLNRLNAGOLFELQTVELGSMVMATFDSAHAHQSELIQIN	363
Db	307	QRYVCLVLDKSSMSAEDELRFQMNDAELYLQVLEKGSVGMVTFDSVAELQNHILRTT	366
Qy	364	SGSDRDTLAKRLPAAASGTSICSGLRSAF-TVIRKKYPTDGESEIVLLTDGEDNTISGC	422
Db	367	DDNVQYKITALKLPYVANGTSTICRGKAGFQAIHSDOSTSGSEIILLTDGEDNEINSCF	426
Qy	423	NEVKGSGAIHIFVALGPPSAQDELELSKATGLOITYASQVOVONNGLLIDAFGLSSGNNAV	482
Db	427	EDVKRSGAIIHTIALGPPSAKAELETKSNMTGGYREFANKDI--TGLITNAFSRISSRSGSI	484
Qy	483	SORSIOLSKGTLTNSOMMNGTVVDSTVGKDTLFLITWTQPPQIILMDPSGO--KQG	540
Db	485	TQOALIOLSKAKLTGKRRKRVNGTVVDSTVGNDTFVWTITQKEIYLODPKGGKYTS	544
Qy	541	GFVVDK-NTKMAVLOIPGIAKGVTKKYSL--QASSQTLTLTVTRASNATLPPYITVTSK	596
Db	545	DFEKDKLNIIRSRALQIPGIAETGCTVYTLNNHASSQMLTVTVTRASPTIPYIATAAH	604
Qy	597	TNKDTSKFPPSLVYANIRQASPIRLRASVYALLESVNGKTYTLELDNGACADATKDDG	656
Db	605	MSQHAHPSPPIYAAQVSGFLPVLGISTVIAIITEDEGHQVTELLMWPNGACARDVVKNGD	664
Qy	657	YVSREFTYDTRNGRSVYVRALGVNAARRRYTPQOSGALYIPGMIENDEIQMNPPEPI	716
Db	665	IYSRFETYIGNGRSLYVHAQRNNNTAALNROPQNKVLYPGVENGKIIILNPPREPV	724
Qy	717	NKDDVQHKQVCFSSRSSGSEFVASDV-PNAPIPDLFPFGQITLDLAEIHGSLNILWTVA	775
Db	725	KDIDLAKNIEDPSRLTSSGSEFTVSGAPPQNNHPSVFPSKITDLDAKFR-EDYIOLSWTA	783
Qy	776	PEDDYDHGTA 785	
Db	784	PGNVLDKKGKA 793	

RESULT 8

US-09-193-562D-32

Sequence 32, Application US/09193562D

Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedict U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules

FILE REFERENCE: 18617.0052

CURRENT APPLICATION NUMBER: US/09/193.562D

CURRENT FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065.922

PRIOR FILING DATE: 1997-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 32

LENGTH: 943

TYPE: PRT

ORGANISM: Homo sapiens

US-09-193-562D-32

Query Match 41.8%; Score 1987.5; DB 4; Length 943;

Best Local Similarity 45.3%; Pred. No. 7e-164;

Matches 413; Conservative 163; Mismatches 281; Indels 55; Gaps 20;

2 GPFKSSVILLIHLLEGALISNSL-----IQLNNGYEGIVVAIDPNPEDETLIQIQIKD 55

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Db      8 GPICMIKFEVTLTLL-----VALSSELPGLAGVQLODNGYNGLLAIINPOVENONLSNIKE 63
Qy      56 MYTQASLILFEKTKRFFKFNVAIILPEYWKAKDYVRKLETYNKADVLVAESPFGMD 115
Db      64 MITEASFYLFNKTKRVEFRNKLILIPATWKAN--NSKIKOESYERKANIVYDWMGAGHD 122
Qy      116 EPTYQMGNGCKEGERIHLPDFIAGKKL-AEYGPQRAFEVHEMHLRMGVDEYNDEK 174
Db      123 DPTIQYKCGCGEGEKYIHPTPNEFLANDNLITAGSGRGRFVHEMHLRMGVDEYNDEK 182
Qy      175 FYLS-NGRIQAVCSAGITGNVVKCOGSCYTKRCFENKVTGLYKGCCEVLQSRTE 233
Db      183 FYINGONOKIVTRCSSDITGIFV---CEKGPCOEKCIISK---LFEKECTIYNSTQWA 236
Qy      234 KASIMFAQHVDSIVFECHEONHNKAPKNQONOKNIRSMWEIIRSEDEKKTTPM--TTQ 291
Db      237 TASIMEKQSLSSVEFCNASTHNOAPNLQNMCSLRSMADVITDSADHSHSPMNGTEL 296
Qy      292 PNPFTSLQIGORIVCLVLDKSGSMATGNRLNLOAGOLFLOLQVELGSMVGMTFDS 351
Db      297 PPPFTFSLVQAGDKVYCLVLDVSSKMAEDRLLOQAAEFLIMQIVEHITVGIASPDS 356
Qy      352 AAHVQSELIQINSGSDRDTLAKRLPAASGCT--SICSGLSAFTYIRK-KYPTDGSSEY 408
Db      357 KGEIRAQHQNINSNDRKRLVSLPTVSADKDISICSGLKGFEYEXKLNGKAYGSVMI 416
Qy      409 LLTDEEDMTISGCFNEVQSGAIHHTVALGPSAOLEFELSKMTGSLQTYASDAQONNL 468
Db      417 LVTSGDDKLGLGCLPTVYSSGSTHISIALGSSAAPNLELSRLTGLKFEVDPDISNSNM 476
Qy      469 IDAFALSSGNGAVSQRSTOLESKGLTLQNSQMMNGTVIVDSTVGKDTFLITM--TTOP 527
Db      477 IDAFIRISSGCTDIOQHOLESTGENVKRPHQKNTYVNDVTGNDIMFLVWQASGSP 536
Qy      528 QLLWDPSGQK--GGFYVVDKNTKMAVLIQPIGIAVGTWKYSL--QAASSQTLTLVTISR 582
Db      537 ELLIDPDGRKRYTNNFTTNLTFTASLWIPGTAKPGHMTYTLNMTHSLQALKTVTSR 596
Qy      593 ASNAFLPTITVSKNTKNTSKRPSPLVYVANTROGASPLIRASVYALLESVNGKVTLEL 642
Db      597 ASNSVNPAPVYAEVYEROLSHPHPMVITAYANVKGFTPLINVTATVAPETGDPVTLTL 656
Qy      643 LDNGAGADATKDDGYRSRYFTTYDNGRYSVKYRALGVNAAARRVYIPQO---SGALYI 698
Db      657 LDGAGADVYKNDGITYSRFESFANGRSKLVH---VNHSPSTSTRAHSLPGSHAMVY 712
Qy      699 PGWINDETIQWNPPEPEINKDVQHKQVCESTRSSGGSFVASDVPNAPIPDLEPPQITD 758
Db      713 PGYTANGNIOMNAPRKRSYVRNEEERKM--GFSRVSSGGSFVSGVAPGPHDVFPPCKIID 771
Qy      759 LKAEIHGSLINLWMTAPGDVDYDGTAKHYIIRISTSLIDLRKFNESLOVNTALIPKE 818
Db      772 LEA-VKVEBELLSMTAPGEDDQOATSYELTRMSKSLQIDDDRNALVNTSKRNPOQ 830
Qy      819 ANSEVFLFKPENITFENGTD-----LFIAIOAVDKVDLKEISINARVSLFI 866
Db      831 AGIREITFTFSPISIT--NGPEHQNGETHESHRIYVAILPAMDNRNLSQSAVSIQAAPLFI 888
Qy      867 PPQTPPEPSPD 878
Db      889 PPNSDP-VPARD 899

```

```

RESULT 9
US-08-469-667-9
; Sequence 9, Application US/08469667
; Patent No. 5733748
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24

```

```

CORRESPONDENCE ADDRESS:
ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,667
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Ferrari, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-435
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-469-667-9

Query Match      25.3%; Score 1203; DB 1; Length 228;
Best Local Similarity 100.0%; Pred. No. 1.2e-96;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      657 VYSRYFTTYDNGRYSVKYRALGVNAAARRVYIPQSGALYIPGWIENDEIQWNPPEPI 716
Db      1 VYSRYFTTYDNGRYSVKYRALGVNAAARRVYIPQSGALYIPGWIENDEIQWNPPEPI 60
Qy      717 NKDDVOHKQVCSRTSSGGSFYASDVNAPIPDLEPPQITDLKAEIHGSLINTWTAP 776
Db      61 NKDDVOHKQVCSRTSSGGSFYASDVNAPIPDLEPPQITDLKAEIHGSLINTWTAP 120
Qy      777 GDDYHGTAHKYIIRISTSLIDLRKFNESLOVNTALIPKEANSSEVFLFKPENITFEN 836
Db      121 GDDYHGTAHKYIIRISTSLIDLRKFNESLOVNTALIPKEANSSEVFLFKPENITFEN 180
Qy      837 GTDLFIAIOAVDKVDLKEISINARVSLFIPTQTPPEPSPDETSAPC 884
Db      181 GTDLFIAIOAVDKVDLKEISINARVSLFIPTQTPPEPSPDETSAPC 228

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RESULT 10
US-09-224-110-9
; Sequence 9, Application US/09224110
; Patent No. 6337195
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; ADDRESSER: Stewart & Olstein
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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Query Match	25.3%	Score 1203;	DB 4;	Length 228;
Best Local Similarity	100.0%;	Pred. No. 1.2e-96;		
Matches 228; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0

RESULT 11
PCT-US95-

Sequence 9, Application PC/TUS9507289
GENERAL INFORMATION:

1 TITLE OF INVENTION: Colon Specific Genes and Proteins
2
3 NUMBER OF SEQUENCES: 24
4
5 CORRESPONDENCE ADDRESS:
6
7 ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
8
9 ADDRESSEE: Stewart & Olstein
10
11 STREET: 6 Becker Farm Road
12
13 CITY: Roseland
14
15 STATE: NJ
16

COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCI/US95/07289
FILING DATE: 06-JUN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Pettaro, Gregory D.
REGISTRATION NUMBER: 36,134

Query Match	25.3%	Score 1203;	DB 5;	Length 228;
Best Local Similarity	100.0%	Pred. NO. 1.2e-96;		
Matches 228; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

RESULT 12
US-09-193-562D-13
; Sequence 13, Application US/09193562D

```

? APPLICANT: Palli, Benedict U.
? TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
? TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
? FILE REFERENCE: 18617.0052
? CURRENT APPLICATION NUMBER: US/09/193,562D
? CURRENT FILING DATE: 1998-11-17
? PRIOR APPLICATION NUMBER: US/60/065,922
? PRIOR FILING DATE: 1997-11-17
? NUMBER OF SEQ ID NOS: 47
? SEQ ID NO 13
? LENGTH: 342
? TYPE: PRT
? ORGANISM: Unknown
? FEATURE:
? OTHER INFORMATION: Variant of Lu-BCAM-1 from bovine endothelial cells
US-09-193-562D-13

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Query Match	19.9%	Score 947.5	DB 4	Length 342;
Best Local Similarity	57.8%	Pred. No. 3.9e-74;		
Matches 182; Conservative	45;	Mismatches 83;	Indels 5;	Gaps 4

[illegible]

Db 187 CSTTGTGIVNVPKCCPGGCSTSLCRDSDQGTGLYEAKCFELPKKSQTAKESIMFEMPSLHS 246

Qy 246 IVEFTEDONHNKEAPRKQKQCNLNKSTWEYIRDSSEFKTTPT--TQPNPFFSLQIG 303
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 247 VTEFTETHTHNEAPRLQKRCNGKSTWDVIMNSVDFONTSPMTENMPPTHPTFSLLSK 306
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 304 QRVCVLVDKSGSMA 318
||:|||||:|||||:
Db 307 QRVCVLVDKSGSMS 321

RESULT 13
US-09-193-562D-3
; Sequence 3, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617_0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 3
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 associated protein from bovine endothelial cells
US-09-193-562D-3

Query Match 8.6%; Score 408; DB 4; Length 203;
Best Local Similarity 48.6%; Pred. No. 1,4e-27;
Matches 84; Conservative 32; Mismatches 55; Indels 2; Gaps 2;

Qy 696 LYIPGIENDELQWNPPEINKDDYQHQQVCSTRSSGGSFYASDY-PNAPIPDLEPPG 754
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 2 LVYPGVENGKIILNPPEVKDKDLAKKIEDFSRLTSGGSFTVSGAPCGNHPSVEPPS 61
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 755 QITDDKAIEHGSLNLWTAPGDYDHGTAHKYYIIRISYILDLRKFNESLOVNTTAL 814
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 62 KITDLEARKR-BDYIDLSMTARPGNVLDKGKANYSIIIRISKSFMDRODFDNATLVNLSL 120
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 815 IPKEAGSEVFLEKPENITFENGTDLFIAIQAVDKVDLKSEISNIARVSLFIP 867
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 IPKEAGSKENEFEPKHFRVENGTKEYISVAQINAEMLISEVSHIVAIFIP 173
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

SURT 14
US-09-268-347-36
; Sequence 36, Application US/09268347
; Patent No. 6335182
; GENERAL INFORMATION:
; APPLICANT: Loomore, Sheena M.
; TITLE OF INVENTION: RECOMBINANT HAEMOPHILUS INFLUENZAE ADHESIN PROTEINS
; FILE REFERENCE: 1038-860
; CURRENT APPLICATION NUMBER: US/09/268,347
; PRIORITY FILING DATE: 1999-03-16
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36
; LENGTH: 2411
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-268-347-36

Query Match 3.0%; Score 143; DB 4; Length 2411;
Best Local Similarity 19.8%; Pred. No. 0.0099;
Matches 161; Conservative 105; Mismatches 308; Indels 240; Gaps 40;

Qy 84 TWKTADYVRPKLEYTKMADVLAESTPGGNDEPYT-EQMGNCGEKERHLHPDFLAGK 142

[illegible]

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/728,470
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9205704.1
FILING DATE: 16-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 22,651
REFERENCE/DOCKET NUMBER: 1038-633
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEO ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1529 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-728-470-10

Query Match 3.0%; Score 140.5; DB 2; Length 1529;
Best Local Similarity 20.9%; Pred. No. 0.0076;
Matches 142; Conservative 94; Mismatches 279; Indels 165; Caps 29;

QY 281 DFKKTPMTQPPNPFTSLQIGRIYCLVLDKSGSMATGRMLNR-----LNOAQ 331
DB 14 DGNMTTIRNSVNAIINKQFNIDQNEOPLQESSNSAVENRYVSDQISQLKGIIDNSGQ 73
QY 332 LFLQ---TVELGSWGYMTFD-SAAVOSSELIQINSQSDRDLAKRLPAASGTSIC 386
DB 74 VFLINPGITIGKDAIINTNGFTASTIDISENIKANFTLEQTKDAIAETVNHGL-IT 132
QY 387 SGLSAFTVIRKKYPD-----GSEIVLLTDEGNTISGCFNEVKOGALIHVALGPS 440
DB 133 VGRDGSVNLIGKVKNGVLSVNGSISLA-GQKITISDIINP-----FTYSIAPEN 186
QY 441 AAQELSLKMTGGLQTYASDQVONNGLI--DAFGALSSGNAVORSIQLESKG-LTLQ 497
DB 187 EAINLGDIFAKGGINVRAA-TIRNKGKLSADSVSKDSGNIYVSAKEGEAEIGVISAQ 245
QY 498 NSOMMNGTVIV-----DSTVGKDLFLITWTTPPOI 529
DB 246 NOQAKGKIMITGDKVLTGCAVIDLSGKEGETYLGDEGEKNGIQLAKKTTLEKGS 305
QY 530 LMDPSGQKOG-----FVVDKNTKMAVLIPIGIKVGWTKYSLQASSQTLTL---- 577
DB 306 TI-NVSGKEKGRAIWMGDIALIDGININ---AQGSDIAKTGCF--VETSGHDSIGDDV 358
QY 578 -----TVTSRASNAIPLPTVYTKNTKDTSK--FPSPLYVYANIRQG 617
DB 359 IYDAKEMLLDDPDVSIETLISGRNNTGENOGYTTGDTKESPKGNSISKPTLFTNSTLEQ- 417
QY 618 ASPLIRASVYALIESVNGKFTVLEL-LDNGAGADATKDDGVYSRYFTTYDNGRYSVKR 676
DB 418 ---ILRGSYVNITANNRITYVNSINLSNGSLTHTKRDGVKINGDITTSNENGLTTKAG 474
QY 677 ALGCVNAARRVYIPQSGALYIPGMIENDEIOWNPPRPE-----INKDD 720
DB 475 SWVDVH-----KNITIGTGFLINI---VAGDSVAFEREGDKARNATDAQITAGCTTVNKDD 527

QY 721 VOHK--OVCFSSRTSSGGSFVASDVPMNPIPDLPFGQIT---DLKAEIHGSLINLT--- 772
DB 528 KQRFNNVNSINGTGKGLKFIANQ-----NNTFHKFDDELINSGIVTINQTTKK 575
QY 773 ---WTAPGDDYDH-----GTAKHY---IIRISTSLIDLRDKFNSLOYNTTALIPKE 818
DB 576 DVRYWNASKDSYWMVSSITLNTVQKFTFIKFDVDSGNSQDLRSSRSPAGVHFNIGGKT 635
QY 819 -----ANSEYFLFKPENIT 833
DB 636 NFNIGANAKALFKLKPNAAT 655

Search completed: October 17, 2002, 18:57:16
Job time : 23 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: October 17, 2002, 10:27:54 ; Search time 6.26368 Seconds
(without alignments)
1739.205 Million cell updates/sec

Title: US-09-049-696-1
Perfect score: 391
Sequence: 1 GAATCAGACAGGAGATGTAC.....ATCTGTGATCTGTTGAAG 223

Scoring table:
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Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 463256

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Command line parameters:

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-DB=Issued_Patents_AA -QMT=fastan -SUFFIX=ra1 -MINMATCH=0.1 -LOOPCL=0
-LOOEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=bl0sum62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR=score -THR MAX=100 -THR MIN=0 -ALIGN=15
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-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6 -Fgapext=7
-YGAPOP=10 -YGAPEXT=0.5 -DELop=6 -DELEXT=7

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
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- 4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
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- 6: /cgn2_6/ptodata/2/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	328	83.9	914	4	US-09-193-562D-28
2	187.5	48.0	902	4	US-09-193-562D-34
3	187.5	48.0	903	4	US-09-193-562D-46
4	187	47.8	1000	4	US-09-193-562D-30
5	181.5	46.4	342	4	US-09-193-562D-13
6	181.5	46.4	795	4	US-09-193-562D-11
7	181.5	46.4	821	4	US-09-193-562D-12
8	181.5	46.4	905	4	US-09-193-562D-2
9	148.5	38.0	943	4	US-09-193-562D-32
10	62.5	16.0	81	4	US-09-129-030-42
11	61.5	15.7	270	4	US-09-082-593-10
12	61	15.6	606	2	US-08-883-534-3

13	61	15.6	606	3	US-09-204-764-3	Sequence 3, Appl1
14	60.5	15.5	142	4	US-08-945-983-7	Sequence 7, Appl1
15	60.5	15.5	863	2	US-08-666-271-2	Sequence 2, Appl1
16	60	15.3	17	4	US-09-193-562D-15	Sequence 15, Appl1
17	60	14.3	2556	4	US-08-185-432-17	Sequence 17, Appl1
18	58	14.8	126	4	US-08-983-607-26	Sequence 26, Appl1
19	57.5	14.7	693	2	US-08-463-620-11	Sequence 11, Appl1
20	57.5	14.7	693	2	US-08-224-917-11	Sequence 11, Appl1
21	57.5	14.7	693	2	US-08-914-853-11	Sequence 11, Appl1
22	57.5	14.7	693	5	PCR-US95-03934A-11	Sequence 11, Appl1
23	57.5	14.7	2485	4	US-09-290-640-46	Sequence 46, Appl1
24	57	13.6	2556	1	US-08-083-590A-20	Sequence 20, Appl1
25	57	13.6	2556	3	US-08-532-384-20	Sequence 20, Appl1
26	57	14.6	3135	4	US-08-323-170B-2	Sequence 2, Appl1
27	57	14.6	3135	4	US-08-954-441-2	Sequence 2, Appl1
28	55.5	14.2	513	2	US-09-122-230-7	Sequence 7, Appl1
29	55.5	14.2	935	2	US-08-152-721B-2	Sequence 2, Appl1
30	55	14.1	594	3	US-08-826-964-2	Sequence 2, Appl1
31	55	14.1	1097	2	US-08-680-326-39	Sequence 39, Appl1
32	54.5	13.9	267	1	US-08-416-336-2	Sequence 2, Appl1
33	54.5	13.0	487	1	US-08-218-943-2	Sequence 2, Appl1
34	54.5	13.9	1356	4	US-09-770-170-6	Sequence 6, Appl1
35	54	13.8	189	4	US-08-861-745B-4	Sequence 4, Appl1
36	54	12.9	355	1	US-08-012-988A-2	Sequence 2, Appl1
37	54	12.9	355	1	US-08-450-393A-5	Sequence 5, Appl1
38	54	12.9	355	4	US-08-446-669-5	Sequence 5, Appl1
39	54	12.9	355	4	US-09-239-938-1	Sequence 1, Appl1
40	54	12.9	355	5	PCR-US95-00476-5	Sequence 5, Appl1
41	54	13.8	617	1	US-08-279-700-21	Sequence 21, Appl1
42	54	13.8	922	2	US-08-464-402-2	Sequence 2, Appl1
43	54	13.8	922	4	US-09-054-775C-2	Sequence 2, Appl1
44	53.5	13.7	112	4	US-08-857-076-75	Sequence 75, Appl1
45	53.5	12.8	312	2	US-09-014-969-17	Sequence 17, Appl1

ALIGNMENTS

```
RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

Alignment Scores:
Pred. No.: 3.5e-38
Score: 328.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 83.89%
DB: 4
Gaps: 0

US-09-049-696-1 (1-223) x US-09-193-562D-28 (1-914)
QY 25 ATGGGGCCATTAAAGAGTCTGTTCATCTTGATCTTCACCTTGAAGGGCCGCTG 84
DB 1 MetGlyProPheLysSerValPheIleuIleLeuHisLeuLeuGlnIleValAlau 20
QY 85 ACTAATTCACCTGATTCAGCTGAACAACATGCGTGTGAAGCATGTGCTTGCATTCGAC 144
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Db 21 SerAsnSerIleuIleuGlnLeuAsnAsnGlyTyrGluGlyIleValAlaIleAsp 40
QY 145 CCCAATGTCGCCAGACATGTAACACATCATTCACCAATTAAGACATGGACCCAGCA 204
Db 41 ProAsnValProGluAspGluThrIleuIleGlnIleLeuLysAspMetValThrGlnAla 60
QY 205 TCTCTGATCTGTTGAA 222
Db 61 SerIleuTyrIleuPheGln 66

RESULT 2
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 3,25e-18 Length: 902
Score: 187.50 Matches: 38
Percent Similarity: 74.24% Conservative: 11
Best Local Similarity: 57.58% Mismatches: 16
Query Match: 47.95% Indels: 1
Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-34 (1-902)
QY 25 ATGGGGCCATTAAAGAGTTCGTGTTGATTCATCTTCACCTTCAGAAAGGCGCCCTG 84
Db 1 MetValProGlyLeuGlnValIleuLeuPheLeuThrIleuHisLeuGlnAsnThr 19
QY 85 AGTAATCACTCATTCAGCTGACACAAACATGCTATGAAAGGCGATTCGTCGATCGAC 144
Db 20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValIleAlaIleAsn 39
QY 145 CCCAATGTCGCCAGACATGTAACACATCATTCACCAATTAAGACATGGACCCAGCA 204
Db 40 ProSerValProGluAspGluThrIleuIleProSerIleLeuLysGluMetValThrGlnAla 59
QY 205 TCTCTGATCTGTTGAA 222
Db 60 SerThrTyrIleuPheGln 65

RESULT 3
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
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; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
; OTHER INFORMATION: 31026)
US-09-193-562D-46

Alignment Scores:
Pred. No.: 3,25e-18 Length: 903
Score: 187.50 Matches: 38
Percent Similarity: 76.92% Conservative: 12
Best Local Similarity: 58.46% Mismatches: 14
Query Match: 47.95% Indels: 1
Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-46 (1-903)
QY 25 ATGGGGCCATTAAAGAGTTCGTGTTGATTCATCTTCACCTTCAGAAAGGCGCCCTG 84
Db 1 MetValProGlyLeuThrValIleuPheLeuThrIleuHisLeuPheGlyMetValThrGlnAla 19
QY 85 AGTAATCACTCATTCAGCTGACACAAACATGCTATGAAAGGCGATTCGTCGATCGAC 144
Db 20 LysSerSerMetValHisLeuIleuAsnGlyTyrAspGlyIleValIleAlaIleAsn 39
QY 145 CCCAATGTCGCCAGACATGTAACACATCATTCACCAATTAAGACATGGACCCAGCA 204
Db 40 ProSerValProGluAspGluThrIleuIleGlnIleLeuLysGluMetValThrGlnAla 59
QY 205 TCTCTGATCTGTT 219
Db 60 SerThrTyrIleuPhe 64

RESULT 4
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIORITY FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. No.: 3,94e-18 Length: 1000
Score: 187.00 Matches: 37
Percent Similarity: 75.81% Conservative: 10
Best Local Similarity: 59.68% Mismatches: 15
Query Match: 47.83% Indels: 0
Gaps: 0

US-09-049-696-1 (1-223) x US-09-193-562D-30 (1-1000)
QY 34 TTTAAGAGTTCGTGATTCATCTGATTCATCTTCAGAAAGGCGCCGAGTAATCA 93
Db 3 PheSerIleuValIleuPheLeuSerIleuLeuSerProValIleuLysSer 22
QY 94 CTCATTGACCTGACACACATGCTATGAAAGGCGATTCGTCGATCGAACCCCAATG 153
Db 23 LeuValThrIleuAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerVal 42
QY 154 CCAGAGATGTAACACATCATTCACCAATTAAGACATGGACCCAGCATCTCTGTAT 213
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Alignment scores:

1. TITLE OF INVENTION: Activated Chloride Channel-Adhesion molecules

1. TITLE OF INVENTION: Activated Chloride Channel-Adhesion molecules

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OY      106 AACCAACATGGCTATGAAGCATTTGCTGGCATTCAGCCCAATCGCCAAAGATGAA 155
Db      36 GlnspahnglyTYrAsnnglyLeuLeuileAlaIleAsnProGlnAlProGluAsnGln 55
OY      166 ACACATCATTCACCAATAAAGACATGGTGCACCCAGCATCTCTGATCTGTTT 219
Db      56 AsnleuileSerAsnIleLysGluMetIleThrGluAlaSerPheTYrLeuPhe 73

RESULT 10
US-09-129-030-42
: Sequence 42, Application US/09129030A
: Patent No. 6242221
: GENERAL INFORMATION:
: APPLICANT: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
: TITLE OF INVENTION: GENOMIC PRO CLONES
: FILE REFERENCE: 57072-PCT-US
: CURRENT APPLICATION NUMBER: US/09/129,030A
: CURRENT FILING DATE: 1998-08-04
: EARLIER APPLICATION NUMBER: AU PNT856
: EARLIER FILING DATE: 1996-02-05
: EARLIER APPLICATION NUMBER: AU PO2361
: EARLIER FILING DATE: 1996-09-16
: EARLIER APPLICATION NUMBER: PCT/AU97/00041
: NUMBER OF SEQ ID NOS: 66
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 42
: LENGTH: 81
: TYPE: PRT
: ORGANISM: RICE
US-09-129-030-42

Alignment Scores:
Pred. NO.:      0.948      Length:      81
Score:          62.50      Matches:     14
Percent Similarity: 55.00%      Conservative: 8
Best Local Similarity: 35.00%      Mismatches: 11
Query Match:    15.98%      Indels:     7
DB:             4          Gaps:      1

US-09-049-696-1 (1-223) x US-09-129-030-42 (1-81)
OY      97 ATTTCAGTGAACAACATGGCTATGAAGCATTTGCTGCATTCGACATCGACCCCAATGTCGA 156
Db      41 LeuAspLeuAsnTYrSerGly-----ThAspProIlePro 53
OY      157 GAACATGAACATCATTCATCAACAATATAAGGACATGGTGCACCCAGCATCTCTGATCTG 216
Db      54 GluAspGlnLeuIleAspGlnAsnLeuLysIleMetTYrArgIleAlaSerAsnHisIle 73

RESULT 11
US-09-082-593-10
: Sequence 10, Application US/09082593
: Patent No. 6180104
: GENERAL INFORMATION:
: APPLICANT: DAVIS, MARK M.
: APPLICANT: HEDRICK, STEPHEN M.
: TITLE OF INVENTION: T CELL RECEPTOR BETA SUBUNIT
: FILE REFERENCE: JX1193-195D1V2
: CURRENT APPLICATION NUMBER: US/09/082,593
: CURRENT FILING DATE: 1998-05-20
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 10
: LENGTH: 270
: TYPE: PRT
: ORGANISM: Mus musculus
US-09-082-593-10

Alignment Scores:
Pred. NO.:      1.86      Length:      270
Score:          61.50      Matches:     26

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Pred. No.: 2.76 Length: 606
Score: 61.00 Matches: 14
Percent Similarity: 51.02% Conservative: 11
Best Local Similarity: 28.57% Mismatches: 24
Query Match: 15.60% Indels: 0
DB: 3 Gaps: 0
US-09-049-696-1 (1-223) x US-09-204-764-3 (1-606)
QY 1 GAATCATCAGGAGATGATGACCAATTTAGAGTTCTGTCATCTTGATT 60
DB 407 ASVALEIPIROLYSCYVALAVALAVALGlyProGlyGlyTyrAlaValValCysIle 426
QY 61 CTCACCTTCTAGAGGGCCCTGAGTAATTCATCTCAGCTGAACAAATGCTAT 120
DB 427 GYGLHILELLEULEULYSASPLNARGLYSCYSPHESERILEASPAHPROGLYTYR 446
QY 121 GAAGCATGTCTGTCATTCAGACCC 147
DB 447 GLUPROGLUVALAVALAVALHISPRO 455
PRT 14
US-08-945-983-7
; Sequence 7, Application US/08945983
; Patent No. 6225527
; GENERAL INFORMATION:
; APPLICANT: Thomas, Colwyn M
; APPLICANT: Ballint-Kurtl, Peter J
; APPLICANT: Jones, David A
; APPLICANT: Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6225527th Glebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/945,983
; FILING DATE: 12-NOV-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/01155
; FILING DATE: 13-MAY-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9509575.8
; FILING DATE: 11-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-27
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 142 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-945-983-7
Alignment Scores:
Pred. No.: 2.14 Length: 142
Score: 60.50 Matches: 18
Percent Similarity: 46.30% Conservative: 7
Best Local Similarity: 33.33% Mismatches: 14

Query Match: 15.47% Indels: 15
DB: 4 Gaps: 3
US-09-049-696-1 (1-223) x US-08-945-983-7 (1-142)
QY 10 GGGAGATGATACCAATGGGCCATTTAGAGTTCTGTCATCTTGATT 57
DB 13 GYARGCYASLNUSEISERGLYPROLLEPROLYSPROLEUTRIPASNLLEUHLLEVAL 32
QY 58 ATTCTTACCTT-----CTAGAGGGCCCTGAGTAATTCATCTCATT----- 99
DB 33 PHEULHISLEULGLYASPAHLSLEULGLYPROLLESERHISPHENHILLEPGLU 52
QY 100 -----CAGCTGAACAAACATGCGTATGAAGGC 126
DB 53 LYSLEULYSARGLSEUSSLERLEUVALASASASHPHEASPLCY 66
RESULT 15
US-08-666-271-2
; Sequence 2, Application US/08666271
; Patent No. 5920000
; GENERAL INFORMATION:
; APPLICANT: JONES, JONATHAN D
; APPLICANT: HAMMOND-KOSACK, KIM E
; APPLICANT: THOMAS, COLWYN M
; APPLICANT: JONES, DAVID A
; TITLE OF INVENTION: PLANT PATHOGEN RESISTANCE GENES AND USES
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/666,271
; FILING DATE: 19-SEP-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB94/02812
; FILING DATE: 23-DEC-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9326428.1
; FILING DATE: 24-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9409363.0
; FILING DATE: 11-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 620-7
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4091
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 863 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-666-271-2
Alignment Scores:
Pred. No.: 3.6 Length: 863
Score: 60.50 Matches: 18
Percent Similarity: 46.30% Conservative: 7

Best Local Similarity: 33.33% Mismatches: 14
 Query Match: 15.47% Indels: 15
 DB: 2 Gaps: 3

US-09-049-696-1 (1-223) x US-08-666-271-2 (1-863)

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QY 10 GCGAGATGTACAGCAATGGGCAATTAGAGTCTGTGTC-----ATCTTG 57
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Db 297 GlyArgCysAsnLeuSerGlyProIleProIysProLeuTrpAsnLeuThrAsnIleVal 316
QY 58 ATTCTTGACCTT-----CTAGAGGGGCCCTGAGTAATTCACATCATT----- 99
    ||||||| ||||||| ::::: |||
Db 317 PheLeuHisLeuGlyAspAsnHisLeuGluGlyProIleSerHisPheThrIlePheGlu 336
QY 100 -----CAGCTGACACACAAATGGCTATGAGGC 126
    ||| ||||| ::::: |||
Db 337 LysLeuLysArgLeuSerLeuValAsnAsnAsnPheAspGly 350
  
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Run on: October 17, 2002, 09:10:09 ; Search time 8.0353 Seconds

6816.956 million cell updates/sec

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Scoring table: IDENTITY_NUC

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Maximum DB seq length: 20000000000
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Post-processing: Minimum Match 0%

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5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

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	2	115	51.6	401	4	US-09-221-298-34	Sequence 34, Appl
	3	91	40.8	3317	4	US-09-193-5620-1	Sequence 1, Appl
	4	85.2	38.2	3418	4	US-09-193-5620-29	Sequence 29, Appl
	5	73.8	33.1	3022	4	US-09-193-5620-33	Sequence 33, Appl
	6	50.8	22.8	2970	4	US-09-193-5620-31	Sequence 31, Appl
	7	33	12.8	6924	1	US-08-015-973-2	Sequence 2, Appl
	8	33	14.8	6924	2	US-08-448-184-2	Sequence 2, Appl
	9	31.4	14.1	1876	2	US-08-466-589-7	Sequence 7, Appl
	10	31.4	14.1	1876	2	US-08-700-636-7	Sequence 7, Appl
●	11	31.4	14.1	1876	3	US-08-467-574-7	Sequence 7, Appl
	12	31.4	14.1	1876	4	US-09-217-345-7	Sequence 7, Appl
	13	29	13.0	7032	4	US-09-324-667-1	Sequence 1, Appl
	14	27.8	12.5	1438	3	US-09-187-331-4	Sequence 4, Appl
	15	27.8	12.5	1438	4	US-09-470-946-4	Sequence 4, Appl
	16	27.6	12.4	3663	4	US-09-459-884-11	Sequence 11, Appl
	17	27.6	12.4	12720	1	US-08-403-666-11	Sequence 11, Appl
	18	27.4	12.3	1620	6	5449756-10	Patent No. 5449756
	19	27.4	12.3	2306	6	5198359-3	Patent No. 5198359
	20	27.4	12.3	2306	6	5449756-3	Patent No. 5449756
●	21	27.2	12.2	6082	4	US-09-439-313-535	Sequence 535, Appl
	22	27.2	12.2	6140	4	US-09-439-313-536	Sequence 536, Appl
	23	27.2	12.2	6960	2	US-08-841-349-3	Sequence 3, Appl
	24	27.2	12.2	8176	2	US-08-841-349-5	Sequence 5, Appl
	25	26.8	12.0	549	3	US-08-851-190-2	Sequence 2, Appl
	26	26.8	12.0	2364	2	US-08-858-2198-5	Sequence 5, Appl
	27	26.8	12.0	2364	3	US-09-233-336A-5	Sequence 5, Appl

C 28	26.8	12.0	2364	3	US-09-433-753A-5	Sequence 5, Appl1
C 29	26.8	12.0	2364	4	US-09-402-038-5	Sequence 5, Appl1
C 30	26.8	12.0	2612	1	US-08-471-031-31	Sequence 31, Appl1
C 31	26.8	12.0	2612	2	US-08-471-044-31	Sequence 31, Appl1
C 32	26.8	12.0	2612	2	US-08-463-483A-31	Sequence 31, Appl1
C 33	26.8	12.0	2612	2	US-08-471-046A-31	Sequence 31, Appl1
C 34	26.8	12.0	2612	2	US-08-470-566B-31	Sequence 31, Appl1
C 35	26.8	12.0	2612	2	US-08-838-218B-3	Sequence 31, Appl1
C 36	26.8	12.0	2612	2	US-08-469-331-31	Sequence 31, Appl1
C 37	26.8	12.0	2612	3	US-09-500-529-31	Sequence 31, Appl1
C 38	26.8	12.0	2612	3	US-09-533-336A-3	Sequence 3, Appl1
C 39	26.8	12.0	2612	3	US-09-433-753A-3	Sequence 3, Appl1
C 40	26.8	12.0	2612	4	US-09-402-036-3	Sequence 3, Appl1
C 41	26.6	11.9	1299	1	US-07-688-355C-17	Sequence 17, Appl1
C 42	26.6	11.9	1299	2	US-08-474-378C-17	Sequence 17, Appl1
C 43	26.6	11.9	1299	3	US-09-146-248A-17	Sequence 17, Appl1
C 44	26.6	11.9	1299	3	US-08-206-188B-17	Sequence 17, Appl1
C 45	26.6	11.9	1299	5	PCT-US91-027174-11	Sequence 11, Appl1

ALIGNMENTS

RESULT 1
US-09-193-562D-27

; Patent No. 6309857

; GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide

;;	TITLE OF INVENTION:
;;	Activated chloride channel molecules
;;	Nucleotide sequences encoding mammalian calcium
;;	Activated chloride channel molecules

FILE REFERENCE: 18617.0052

CURRENT APPLICATION NUMBER: US/09/193,562D

PRIOR APPLICATION NUMBER: US/60/065,922

PRIOR FILING DATE: 1997-

NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007
; TYPE: DNA

ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 99.38; Score 221.4; DB 4; Length 3007;

Best local Similarity 99.6%; Pred. No. 6.9e-64;
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Oy      1  GAATCAGAGGAGATGTACACCAATTGGGGCCATTTAAGAGTTCTGTTTCATCTTGATT
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      23  GGAATCAGAGGAGATGTACACCAATTGGGGCCATTTAAGAGTTCTGTTTCATCTTGATT
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy      61  CTTTCACCTTCTAGAGAGGGGCCCTGAGTAATTAATCTCATTCAGCTGAACAACAATGGCTAT
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      83  CTTTCACCTTCTAGAGAGGGGCCCTGAGTAATTAATCTCATTCAGCTGAACAACAATGGCTAT
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy      121  GAAGCATTTGCTGTTCATATCAGCCCAATGTGGCCAGAAAGTGAAGAATCATTCATCAACAA
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      143  GAAGGCATTTGCTGTTCATATCAGCCCAATGTGGCCAGAAAGTGAAGAATCATTCATCAACAA
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy      181  ATAAAGACATGGTGACCCAGGCAATCTCTGATCTGTTGAAG  223
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      203  ATAAAGACATGGTGACCCAGGCAATCTCTGATCTGTTGAAG  245
      |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 2
US-09-221-298-34
; Sequence 34, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER
; FILE REFERENCE: 210121.471

```

;; CURRENT APPLICATION NUMBER: US/09/221,298
;; CURRENT FILING DATE: 1998-12-23
;; NUMBER OF SEQ ID NOS: 112
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 34
;; LENGTH: 401
;; TYPE: DNA
;; ORGANISM: Human
US-09-221-298-34

Query Match 51.6%; Score 115; DB 4; Length 401;
Best Local Similarity 100.0%; Pred. No. 5.2e-29;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 AACAAAGCGATGAGGATGCTGCTGCTGCAATGACCCCAATGCGCAGAGATGAACA 168
DB 1 AACAAAGCGATGAGGATGCTGCTGCTGCAATGACCCCAATGCGCAGAGATGAACA 60

QY 169 CTCATTCAACAAATTAAGAGCATGTGACCCAGCATCTCTGATCTGTTGAAG 223
61 CTCATTCAACAAATTAAGAGCATGTGACCCAGCATCTCTGATCTGTTGAAG 115

RESULT 3
US-09-193-562D-1
; Sequence 1, Application US/09193562D

;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 1
;; LENGTH: 3317
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
;; OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

Query Match 40.8%; Score 91; DB 4; Length 3317;
Best Local Similarity 66.7%; Pred. No. 1.2e-20;
Matches 146; Conservative 0; Mismatches 70; Indels 3; Gaps 1;

5 TCACAGGAGATGTACAGCAATGGGCGCATTTAAGATCTGCTGCTCATCTTGATCTTC 64
DB 43 TTACTGTAAATGTGCAAAATGTGCTGCTGCTGATGATGATTTCTCTCTCAATGTC 102
QY 65 ACCTTCTAGAGGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAACATGGCTATGAAG 124
DB 103 ATCTCTGCTCTG---AATGAAAGTTCATGTAATTTGATTAACAATGGGATGATG 159
QY 125 GCATTGCTGTCATGCAATGACCCCAATGTGCCAGAAATGAAACATCATTCACAAATTA 164
DB 160 GCATTGCTGTCATGCAATTAACCCAGATGTGCCAGAAATGAAACATCATTCACAAATTA 219
QY 185 AGGACATGTCGACCCAGGATCTCTGATCTGTTGAAG 223
DB 220 AGGAAATGTAAGCTTCACTTAACCTGTTTCATG 258

RESULT 4
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.

;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 29
;; LENGTH: 3418
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 38.2%; Score 85.2; DB 4; Length 3418;
Best Local Similarity 67.4%; Pred. No. 9.9e-19;
Matches 120; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 46 GTGTCATCTGTAATTCCTTACCTTCTAGAAAGGCCCTGAGTAATTCACCTCAGCTG 105
DB 37 GTGATTCCTCTCCTATCTGCTTCTCTCGCCTGATTAAGAAAGCTCACTGTAATCTTG 96

QY 106 AACACAAATGGCTATGAGGATGCTGCTGCAATGACCCCAATGCGCAGAAATGA 165
DB 97 AATTAACAAATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 156

QY 166 ACACATTCACAAATTAAGAGCATGTGACCCAGCATCTCTGATCTGTTGAAG 223
DB 157 AACTCATTCACAAATTAAGAGCATGTGATGATGATGATGATGATGATGATGATGATG 214

RESULT 5
US-09-193-562D-33
; Sequence 33, Application US/09193562D

;; Patent No. 6309857
;; GENERAL INFORMATION:
;; APPLICANT: Pauli, Benedicht U.
;; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
;; FILE REFERENCE: 18617.0052
;; CURRENT APPLICATION NUMBER: US/09/193,562D
;; CURRENT FILING DATE: 1998-11-17
;; PRIOR APPLICATION NUMBER: US/60/065,922
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 47
;; SEQ ID NO 33
;; LENGTH: 3022
;; TYPE: DNA
;; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match 33.1%; Score 73.8; DB 4; Length 3022;
Best Local Similarity 72.2%; Pred. No. 5.6e-15;
Matches 96; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY 91 TCACATTCAGCTGCAACAATGGCTATGAAGGATGCTGCTGCAATGACCCCAAT 150
DB 81 TCATGCTGATCTCAACAGCAATGATGATGATGATGATGATGATGATGATGATGATG 140
QY 151 GTGCCAGAAAGATGAACACTCATTCACAATTAAGAGATGCTGACCAAGCATCTTG 210
DB 141 GTGCCAGAGAGCAAAAGGCTCATCCCAAGCATTAAGAAATGTAATCAAGCTTCAAC 200
QY 211 TATCTGTTGAAG 223
DB 201 TACCTGTTGAAG 213

RESULT 6
US-09-193-562D-31
; Sequence 31, Application US/09193562D
; Patent No. 6309857
;; GENERAL INFORMATION:

Matches 84; Conservative 0; Mismatches 85; Indels 0; Gaps 0.

QY 53 TCTGATTTCTTCACTCTTGAAGGGCCCTGAGTAATTCATCTCATCTGACGTGAACAACA 112
|||||
DB 5927 TCTTCATTCATGATGACACTGTGTGAGCCACTACTAGTAAGAACTGAGAGTGTGACA 5986
QY 113 ATGGCATGGAAGGCAATGCTGTGCAATGACCCCAATGTGCCAAGATGAACACTCA 172
|||||
DB 5987 GTCATATTCATGCTGCTTAATGCACTCTCATCTTCTGTGACGACGAGCAAAACAAGC 6046
QY 173 TTCAACAATAAAGACATGCTGACCCAGGCACTCTGTATCTGTTGA 221
|||||
DB 6047 TAGAGAAACAATTCACAGCTCTGAGCCAGTCAATATACAGACAGATGA 6095

RESULT 9
US-08-466-589-7

; Sequence 7, Application US/08466589
; Patent No. 5837489
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Harpold, Michael M.
; APPLICANT: Harpold, Michael M.
; TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
; TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & Mcclain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: USA
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,589
; FILING DATE: June 5, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/028,031
; FILING DATE: March 8, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L.
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9950
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; TELEX:
; INFORMATION FOR SEQ. ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1876 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 73..1581
; US-08-466-589-7

Query Match 14.1%; Score 31.4; DB 2; Length 1876;
Best Local Similarity 57.7%; Pred. No. 0.51;
Matches 56; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 57 GATCTTCACCTTGAAGGGCCCTGAGTAATTCATCTGCTGAGCAACAATG 116
|||||
DB 366 GACGTTCCTTCCCAATGCGCAGATTGGAACCAACAGACATCTCTATAACAGTGC 425
QY 117 CTATGAAGCATGTGCTGCAATGACCCCAATGTG 153
|||||

DB 426 TGATGAGCGCTTGAGCGCCACATTCACACTAAGTGTG 462

RESULT 10
US-08-700-636-7

; Sequence 7, Application US/08700636
; Patent No. 5910582
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Harpold, Michael M.
; APPLICANT: Harpold, Michael M.
; TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
; TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/700,636
; FILING DATE: 16-JUL-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/028,031
; FILING DATE: 08-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9368
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-4737
; TELEFAX: 619-546-9392
; INFORMATION FOR SEQ. ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1876 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 73..1581
; US-08-700-636-7

Query Match 14.1%; Score 31.4; DB 2; Length 1876;
Best Local Similarity 57.7%; Pred. No. 0.51;
Matches 56; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 57 GATCTTCACCTTGAAGGGCCCTGAGTAATTCATCTGCTGAGCAACAATG 116
|||||
DB 366 GACGTTCCTTCCCAATGCGCAGATTGGAACCAACAGACATCTCTATAACAGTGC 425
QY 117 CTATGAAGCATGTGCTGCAATGACCCCAATGTG 153
|||||
DB 426 TGATGAGCGCTTGAGCGCCACATTCACACTAAGTGTG 462

RESULT 11
US-08-467-574-7

; Sequence 7, Application US/08467574
; Patent No. 6022704
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Harpold, Michael M.


```

: TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
: TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: Brown, Martin, Haller & McClaim
: STREET: 1660 Union Street
: CITY: San Diego
: STATE: CA
: COUNTRY: USA
: ZIP: 92101-2926
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ Version 1.5
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/467,574
: FILING DATE: June 5, 1995
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/028,031
: FILING DATE: March 8, 1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Seidman, Stephanie L.
: REGISTRATION NUMBER: 33,779
: REFERENCE/DOCKET NUMBER: 6362-9949
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 619-238-0999
: TELEFAX: 619-238-0062
: TELEX:
: INFORMATION FOR SEQ ID NO: 7:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1876 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: both
: TOPOLOGY: both
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 73..1581
: US-08-467-574-7
:
: Query Match 14.1%; Score 31.4; DB 3; Length 1876;
: Best Local Similarity 57.7%; Pred. No. 0.51;
: Matches 56; Conservative 0; Mismatches 41; Indels 0; Gaps 0;
:
: 57 GATCTTCACCTTCAGAGGGCCCTGAGTAATTCACCTCATTCAGCTGAACACAAATGG 116
: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
: 366 GACGCTTTCGTTCCACGATGGCCAGATTTCGGAACACGACATTCCTCTAATGAGTGC 425
:
: QY 117 CTATGAAGCATTTGTCTGTTGCATTCGACCCCAATGTG 153
: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
: Db 426 TGATGAGCGCTTTGACGCCACATTCACACATCACTG 462
:
: RESULT 12
: US-09-217-345-7
: Sequence 7, Application US/09217345
: Patent No. 6303753
: GENERAL INFORMATION:
: APPLICANT: Elliot, Kathryn J.
: APPLICANT: Ellis, Steven B.
: APPLICANT: Harpold, Michael M.
: TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
: TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: Heller Ehrman White & McCauliffe
: STREET: 4250 Executive Square, 7th Floor
: CITY: La Jolla
: STATE: CA
: COUNTRY: USA
: ZIP: 92037

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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217,345
FILING DATE: 21-DEC-98
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/467,574
FILING DATE: 05-JUN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/466,589,
FILING DATE: 05-JUN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/028,031
FILING DATE: 08-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L.
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24735-9949B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-450-8400
TELEFAX: 619-587-5360
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1876 base pairs.
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 73..1581
US-09-217-345-7

Query Match 14.1%; Score 31.4; DB 4; Length 1876;
Best Local Similarity 57.7%; Pred. No. 0.51;
Matches 56; Conservative 0; Mismatches 41; Indels 0; Gaps

OY 57 GATCTCTCACCTTGTAAAGAGGGCCCTGAGTAATTCACATTCAGCTGAGCAACAATG 116
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 366 GACGCTTCGTTCCCAAGATGCGCAGATTTGGAAACGAGACATTCCTCTATAAGAGTGC 425

OY 117 CTATGAAGCATTTGTGCTGCAATGCAGCCCAATGTG 153
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 426 TGATGAGCGCTTTGACGCCACATTCACACTAAGCTG 462

RESULT 13
US-09-324-867-1
: Sequence 1, Application US/09324867A
: Patent No. 6251632
: GENERAL INFORMATION:
: APPLICANT: Lillycrap, David
: APPLICANT: Cameron, Cherie
: APPLICANT: No. 6251632ley, Colleen
: APPLICANT: Horrocks, L. Suzanne Hoyle
: APPLICANT: Hough, Christine
: TITLE OF INVENTION: Canine Factor VIII Gene, Protein and Methods of Use
: FILE REFERENCE: 1669, 0010002/34G/BJD
: CURRENT APPLICATION NUMBER: US/09/324,867A
: CURRENT FILING DATE: 1999-06-03
: EARLIER APPLICATION NUMBER: 09/035,141
: EARLIER FILING DATE: 1998-03-059
: EARLIER APPLICATION NUMBER: 60/039,953
: EARLIER FILING DATE: 1997-03-06
: NUMBER OF SEQ ID NOS: 63
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 1
: LENGTH: 7032
: TYPE: DNA

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C 13	62	12.6	153	1	US-08-050-319B-52	Sequence 52, Appl
C 14	-62	12.6	153	2	US-08-465-982-52	Sequence 52, Appl
C 15	62	12.6	153	2	US-08-219-237B-4	Sequence 4, Appl
C 16	62	12.6	153	4	US-08-477-347-12	Sequence 12, Appl
C 17	62	12.6	153	4	US-08-476-862-3	Sequence 3, Appl
C 18	62	12.6	153	4	US-08-468-560C-4	Sequence 4, Appl
C 19	-62	12.6	157	1	US-08-050-319B-50	Sequence 50, Appl
C 20	62	12.6	157	2	US-08-465-982-50	Sequence 50, Appl
C 21	62	12.6	161	4	US-09-326-984-2	Sequence 2, Appl
C 22	62	12.6	199	1	US-08-050-319B-48	Sequence 48, Appl
C 23	62	12.6	199	2	US-08-465-982-48	Sequence 48, Appl
C 24	62	12.6	280	3	US-08-974-022-46	Sequence 46, Appl
C 25	62	12.6	280	4	US-08-795-445A-46	Sequence 46, Appl
C 26	62	12.6	280	4	US-08-795-445A-46	Sequence 46, Appl
C 27	62	12.6	280	4	US-08-974-186-46	Sequence 46, Appl
C 28	62	12.6	280	4	US-08-795-445A-46	Sequence 46, Appl
C 29	62	12.6	285	4	US-08-804-166-6	Sequence 6, Appl
C 30	62	12.6	285	4	US-08-810-991-6	Sequence 6, Appl
C 31	62	12.6	336	4	US-08-804-166-8	Sequence 8, Appl
C 32	62	12.6	336	4	US-08-910-991-8	Sequence 8, Appl
C 33	62	12.6	453	4	US-09-086-483A-5	Sequence 5, Appl
C 34	62	12.6	455	1	US-08-050-319B-25	Sequence 25, Appl
C 35	62	12.6	455	1	US-08-321-668-2	Sequence 2, Appl
C 36	62	12.6	455	1	US-08-837-941-2	Sequence 2, Appl
C 37	62	12.6	455	2	US-08-126-016-2	Sequence 2, Appl
C 38	62	12.6	455	2	US-08-465-982-25	Sequence 25, Appl
C 39	62	12.6	455	4	US-08-815-469-5	Sequence 5, Appl
C 40	62	12.6	455	4	US-09-006-353A-3	Sequence 3, Appl
C 41	62	12.6	455	4	US-09-527-236A-5	Sequence 5, Appl
C 42	62	12.6	455	4	US-09-013-895A-4	Sequence 4, Appl
C 43	61.5	12.5	256	4	US-08-804-166-2	Sequence 2, Appl
C 44	61.5	12.5	256	4	US-08-910-991-2	Sequence 2, Appl
C 45	61.5	12.5	307	4	US-08-804-166-4	Sequence 4, Appl

Dd 57 ValrHrGlnAlaSerLeuTyrLeuPheGluValrHrGlyAsnProTyrPheYasn 76

Oy 121 GTTGCCATTGTGGATTCCTGAAGAATGAGACAAAGTGACTATGTGAGACCAAAATT 180
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dd 77 ValAlaIleLeuIleProGluThrTrpLysAlaAspTyrValArgProLysLeu 96
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 181 GAGACCTCAAAAAATGCATGTCTGTGCTGCTGCTGCTAATCCGCCGAGNAATGATCAA 240
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dd 97 GluTrpTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspLeu 116
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 241 CCTACACTGNGCAGATGGCGCACTGTGCGCAG 273
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dd 117 ProTyrThrGluGlnMetGlyAsnCysSglYlu 127

RESULT 2

US-09-193-562D-46
: Sequence 46, Application us/09193562D
: Patent No. 6309857

GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 18617.0052

CURRENT APPLICATION NUMBER: US/09/193.562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065.922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 46
LENGTH: 903
TYPE: PRT
ORGANISM: Unknown

FEATURE:
OTHER INFORMATION: calcium sensitive chloride channel from bovine tracheal
OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46)

```

Pred. No.: 5,85e-33 Length: 903
Score: 292.00 Matches: 54
Percent Similarity: 75.82% Conservative: 15
Best Local Similarity: 59.34% Mismatches: 22
Query Match: 62.00% Indels: 0
Gaps: 4

US-09-049-696-2 (1-273) x US-09-193-562D-46 (1-903)

QY 1 GTTGCAATCCAGCCCAATGTCGCCGAGAACTGTAAMACACATCTCAACAATTAAGCATG 60
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
36 IleaIaIleaInProSeValProlGlnSpIuIsLeuIleGlnIaInIleLysGlnMet 55

QY 61 GTGACCAGGAGCTCTGTATCTGTGTTGAACCTACAGAGAAAGCATTTATTTCAAAAT 120
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
56 ValThrGlnIaIaSeThrThyTyrLeuPheInIaIaThrIlySaTgArGValTyrPheaGAsn 75

QY 121 GTTGCAATTTTGATTCCTCGAAGACATGAGAGCAAAAGGTACTATGTGAGACCAGCAACT 180
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
76 ValSerIleLeuIleIleProMetThrThrIlySerIlySerIleGlnIleMetProIyGln 95

QY 181 GAGACCTACAAAATAGCTGATGTCTGTCTGTGCTGCTGAGTCTATCTCCAGNAATGATGAA 240
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
96 GluSerTyrIaSPGlnIaIaGlnValIleValIleValaInaSPProTyrTyrLeuIyShIaSPAsp 115

QY 241 CCTTACACTGNGCAGATGGCAACTGTGGCAG 273
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db 116 ProTyrThrIleuGlnTyrGlyAryGlySeIyGln 126

RESULT 3
US-09-193-562D-13
; Sequence 13, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:

```

```

APPLICANT: Pauli, Benedict U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT FILING DATE: 1998-11-17
PRIORITY FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 13
LENGTH: 342
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562d-13

Alignment Scores:
Pred. NO.: 1.58e-32 Length: 342
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: Gaps: 4

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US-09-049-696-2 (1-273)	x	US-09-193-562D-13 (1-342)	
OY	1	GTGGATATCGACCCCAATGTCGCCAGGAAGATCAACACATTCATCAACAAATTAAGACATG	60
Db	36	lleaiaaiaaenpProSerValpProGlnspGluysLeuileGluasnileLysGluMet	55
OY	61	GTGACCAGCAGATCTCTGTATCTGTTGAACCTACAGGAAGAAGCATTTATTTCAAAAT	120
Db	56	ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn	75
OY	121	GTGGCCATTTTGATTCTCTGAACACATGAGACAAAGCGTACTATGAGACCCAAACTT	180
Db	76	ValSerileLeuileProMetThrTyrPlySerLysSerGluTyrPheileProLysGln	95
OY	181	GAGACCTCAAAAATGCGATGATGTCCTGGTCTGAGTGTATTCCTCCAGNAATGAGGAA	240
Db	96	GusertYrAspGlnAlaAspAlileValAlaAsnProTyrLeuLysTyrGlyAspAsp	110
OY	241	CCCTACACTGNGCAGATGGCGAACAATGTGGCGAG	273
Db	116	ProTyrThrLeuGlnIntYrGlyArgCysGlyGlu	126
RESULT 4			
US-09-193-562D-11			
; Sequence 11, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; TITLE REFERENCE: 18617.0052			
; CURRENT APPLICATION NUMBER: US/09/193.562D			
; CURRENT FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065.922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 11			
; LENGTH: 795			
; TYPE: PRT			
; ORGANISM: Unknown			
; FEATURE:			
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells			
US-09-193-562D-11			
Alignment Scores:			
Pred. No.:	2.08e-32	Length:	795
Score:	288.00	Matches:	54
Percent Similarity:	74.73%	Conservative:	14

Best Local Similarity: 59.34% Mismatches: 23
 Query Match: 4 Indels: 0
 DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-11 (1-795)

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OY 1 GTTGCAATGACCCCAATGTCGAGAGATGAACACATCTATTCACAAATAAGACATG 60
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 36 lIeAlIleAsnProSerValProGluAspGluLysLeuIlleGluAsnIlleYsgIumet 55
OY 61 GTGACCCAGGACATCTCTGATCTGTTTGAAGCTACAGAAAGCATTTATTTCAAAAT 120
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 56 ValThGlAlaSerThrTrpLeuPheHisAlaThrLysArgArgValTrpPheArgAsn 75
OY 121 GTTGCAATTTGATTCCTGAACATGAGACAAAGNTGACATGTGAGACCAAACTT 180
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 76 ValSerIleLeuIllePromethrTrpLysSerLysSerGluTrpPheIlleProLysGln 95
    181 GAGACCTACAAAATGCTGATGTTGCTGAGTCTANTCCTCAGGNATGATGAA 240
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
    241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 116 ProTyrThrLeuGlnTrpGlyArgCysGlyGlu 126
  
```

RESULT 5

```

US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12
  
```

Alignment Scores:

```

Pred. No.: 2,1e-32 Length: 821
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0
  
```

US-09-049-696-2 (1-273) x US-09-193-562D-12 (1-821)

```

OY 1 GTTGCAATGACCCCAATGTCGAGAGATGAACACATCTATTCACAAATAAGACATG 60
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 36 lIeAlIleAsnProSerValProGluAspGluLysLeuIlleGluAsnIlleYsgIumet 55
OY 61 GTGACCCAGGACATCTCTGATCTGTTTGAAGCTACAGAAAGCATTTATTTCAAAAT 120
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 56 ValThGlAlaSerThrTrpLeuPheHisAlaThrLysArgArgValTrpPheArgAsn 75
OY 121 GTTGCAATTTGATTCCTGAACATGAGACAAAGNTGACATGTGAGACCAAACTT 180
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 76 ValSerIleLeuIllePromethrTrpLysSerLysSerGluTrpPheIlleProLysGln 95
    181 GAGACCTACAAAATGCTGATGTTGCTGAGTCTANTCCTCAGGNATGATGAA 240
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
  
```

```

OY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 116 ProTyrThrLeuGlnTrpGlyArgCysGlyGlu 126
  
```

RESULT 6

```

US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2
  
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Alignment Scores:

```

Pred. No.: 2,17e-32 Length: 905
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0
  
```

US-09-049-696-2 (1-273) x US-09-193-562D-2 (1-905)

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OY 1 GTTGCAATGACCCCAATGTCGAGAGATGAACACATCTATTCACAAATAAGACATG 60
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 36 lIeAlIleAsnProSerValProGluAspGluLysLeuIlleGluAsnIlleYsgIumet 55
OY 61 GTGACCCAGGACATCTCTGATCTGTTTGAAGCTACAGAAAGCATTTATTTCAAAAT 120
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 56 ValThGlAlaSerThrTrpLeuPheHisAlaThrLysArgArgValTrpPheArgAsn 75
OY 121 GTTGCAATTTGATTCCTGAACATGAGACAAAGNTGACATGTGAGACCAAACTT 180
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 76 ValSerIleLeuIllePromethrTrpLysSerLysSerGluTrpPheIlleProLysGln 95
    181 GAGACCTACAAAATGCTGATGTTGCTGAGTCTANTCCTCAGGNATGATGAA 240
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
    241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
    ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
DB 116 ProTyrThrLeuGlnTrpGlyArgCysGlyGlu 126
  
```

RESULT 7

```

US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
  
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100 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

EARLIER FILING DATE: 1996-02-05

EARLIER FILING DATE: 1996-02-05

```

Oy      61 GTGACCAGGACGATCTCGTATCTGTTTGAAGACTCTACAGAAAGCATTTTATTCAAAAT 120
        |||          |||          |||          |||          |||          |||
Db      550 ValHisMetGlyHisValHisValTyrAspAlaVal]-----ValTyrArgGly 565

Oy      121 GTTGCCATTTTGATTCCTGGAACATGGAAGCAAGAGNTGACTAT 165
        |||          |||          |||          |||          |||          |||
Db      566 ValGlnLeuValAsnSerAlaThrTyrGlnAlaGlnThrGluPhe 580

RESULT 12
US-09-712-266-5
; Sequence 5, Application US/09712266
; Patent No. 6333158
; GENERAL INFORMATION:
; APPLICANT: UEMORI, Takashi
; APPLICANT: SATO, Yoshimi
; APPLICANT: FUJITA, Tomoko
; APPLICANT: MIYAKE, Kazuo
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: DNA POLYMERASE-RELATED FACTORS
; FILE REFERENCE: 1422-408PCT
; CURRENT APPLICATION NUMBER: US/09/712,266
; PRIOR FILING DATE: 2000-11-15
; PRIOR APPLICATION NUMBER: US 09/446,504
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/JP98/02845
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: JP 9-187496
; PRIOR FILING DATE: 1997-06-26
; PRIOR APPLICATION NUMBER: JP 9-320692
; PRIOR FILING DATE: 1997-11-27
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Pyrococcus furiosus
US-09-712-266-5

Alignment Scores:
Pred. NO.:
Score:
Percent Similarity: 1.1
Best Local Similarity: 58.18%
Query Match: 23.64%
DB: 13.69%
Gaps: 2

US-09-049-696-2 (1-273) x US-09-712-266-5 (1-613)

Oy      1 GTGCAATCGACCCCAATGTGCCGAAGATGAAACACTCATTCACAACAATAAGACATG 60
        |||          |||          |||          |||          |||          |||
Db      531 ValProIleAlaProAsp--ProGluAspLeuValIleGluGluValProAspVal 549

Oy      61 GTGACCAGGACGATCTCGTATCTGTTGAAGCTACAGAAAGCATTTTATTCAAAAT 120
        |||          |||          |||          |||          |||          |||
Db      550 ValHisMetGlyHisValHisValTyrAspAlaVal]-----ValTyrArgGly 565

Oy      121 GTTGCCATTTTGATTCCTGGAACATGGAAGCAAGAGNTGACTAT 165
        |||          |||          |||          |||          |||          |||
Db      566 ValGlnLeuValAsnSerAlaThrTyrGlnAlaGlnThrGluPhe 580

RESULT 13
US-08-050-319b-52
; Sequence 52, Application US/08050319B
; Patent No. 5633145
; GENERAL INFORMATION:
; APPLICANT: M.Feldmann, P.W. Gray,
; APPLICANT: M.J.C. Turner, F.M.Brennan
; TITLE OF INVENTION: Modified human TNFalpha (Tumor
; NUMBER OF INVENTION: Necrosis Factor alpha) Receptor
; NUMBER OF SEQUENCES: 57

```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Reed & Robbings
;; STREET: 635 Bryant Street
;; CITY: Palo Alto
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94301
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, version #1.25
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/050,319B
;; FILING DATE: 10-May-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Robbings, Roberta L.
;; REGISTRATION NUMBER: 33,208
;; REFERENCE/DOCKET NUMBER: 5150-0030
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 617-8999
;; TELEFAX: (415) 327-3231
;;
;; INFORMATION FOR SEQ ID NO: 52:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 153 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;;
;; US-08-050-319B-52

Alignment Scores:
Pred. No.: 1.58 Length: 153
Score: 62.00 Matches: 19
Percent Similarity: 40.00% Conservative: 5
Best Local Similarity: 31.67% Mismatches: 24
Query Match: 12.60% Indels: 12
DB: 1 Gaps: 3

US-09-049-696-2 (1-273) x US-08-050-319B-52 (1-153)

QY 177 TTTTGGTCACATAGTCANCCCTTGTCTTCATGTTTCAGGAATCAAAATGCGACATT 118
:::|||||
Db 89 TyrTrpserIuAsnleuPheGlnCysPheAsnGlyThrVal 108
QY 117 TTTGAATAAATCGCTTCTGTAGCTTCAACAGATACAGAAATCCCTGGTCACCAT 58
|||||
Db 109 -----HisLeuSerCysGlnGluGlnAsnThrValCysThrCysHisAla 124
57 GTCCTTATTTGTTG---AATGAGTGTTCATCTTCGGCACATTGGGTCGATTCGACAC 1
:::|||||
Db 125 GlyPheHeuLArgIuAsnGluCys-----ValSerCysSer 137

RESULT 14
US-08-465-982-52
; Sequence 52, Application US/08465982
; Patent No. 5863786
; GENERAL INFORMATION:
; APPLICANT: M.Feldmann, P.W. Gray,
; APPLICANT: M.J.C. Turner, F.M. Brennan
; TITLE OF INVENTION: Modified human TNFalpha (Tumor
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Reed & Robbings
; STREET: 635 Bryant Street
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/465,982
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/050,319
;; FILING DATE: 10-May-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Robbings, Roberta L.
;; REGISTRATION NUMBER: 33,208
;; REFERENCE/DOCKET NUMBER: 5150-0030
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 617-8999
;; TELEFAX: (415) 327-3231
;;
;; INFORMATION FOR SEQ ID NO: 52:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 153 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;;
;; US-08-465-982-52

Alignment Scores:
Pred. No.: 1.58 Length: 153
Score: 62.00 Matches: 19
Percent Similarity: 40.00% Conservative: 5
Best Local Similarity: 31.67% Mismatches: 24
Query Match: 12.60% Indels: 12
DB: 2 Gaps: 3

US-09-049-696-2 (1-273) x US-08-465-982-52 (1-153)

QY 177 TTTTGGTCACATAGTCANCCCTTGTCTTCATGTTTCAGGAATCAAAATGCGACATT 118
:::|||||
Db 89 TyrTrpserIuAsnleuPheGlnCysPheAsnGlyThrVal 108
QY 117 TTTGAATAAATCGCTTCTGTAGCTTCAACAGATACAGAAATCCCTGGTCACCAT 58
|||||
Db 109 -----HisLeuSerCysGlnGluGlnAsnThrValCysThrCysHisAla 124
57 GTCCTTATTTGTTG---AATGAGTGTTCATCTTCGGCACATTGGGTCGATTCGACAC 1
:::|||||
Db 125 GlyPheHeuLArgIuAsnGluCys-----ValSerCysSer 137

RESULT 15
US-08-219-237B-4
; Sequence 4, Application US/08219237B
; Patent No. 5874546
; GENERAL INFORMATION:
; APPLICANT: NAGATA, Shigekazu
; APPLICANT: ITOH, Naoto
; APPLICANT: YONEHARA, Shin
; TITLE OF INVENTION: DNA Coding for Human Cell Surface Antigen
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James W. Hellwege
; STREET: P.O. Box 2266 Eads Station
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/219,237B
; FILING DATE: 28-MAR-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:


```

? APPLICATION NUMBER: US 07/872,129
?
? FILING DATE: 22-APR-1992
?
? CLASSIFICATION: 435
?
? ATTORNEY/AGENT INFORMATION:
?
? NAME: James M. Hellwege
?
? REGISTRATION NUMBER: 28,808
?
? REFERENCE/DOCKET NUMBER: 516762
?
? INFORMATION FOR SEQ ID NO: 4:
?
?     SEQUENCE CHARACTERISTICS:
?
?     LENGTH: 153 amino acids
?
?     TYPE: amino acid
?
?     TOPOLOGY: linear
?
?     MOLECULE TYPE: protein
?
US-08-219-237B-4

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Alignment scores:	
Pred. No.:	1.58
Score:	62.00
Percent Similarity:	40.00%
Best Local Similarity:	31.67%
Indels Match:	12.60%
DB:	2
Length:	153
Matches:	19
Conservative:	5
Mismatches:	24
Indels:	12
Gaps:	3

US-09-049-696-2 (1-273) x US-08-219-237B-4 (1-153)

Oy	177	TTTTGGTCTACATGACATC	CTTTGGCTTCCATGCTTCAGGAATCAAAATGGCAACAT	118
Db	93	TYTTPSERTGIUASnLEuphEGLIcysPheasntSerLeucysLeuasnGLythrVal		112
Oy	117	TTTGAAATAAATAGCGCTTTCCTGACGCTTCAACACAGATACAGAGATGCGTGGGTACACAT		58
Db	113	-----HLSLeuSerCysGLInGLuLSysLInsnthrValCysThrCysSHISaLa		128
Oy	57	GTCCCTTAATTTTGTTG---	AATGAGTGTTCATCTTCGACACATGGGGTCGATGTCAC	1
Db	129	GLYPhepHeLeuAArgGIuASnGLucys-----	ValSerCysSer	141

Search completed: October 17, 2002, 17:59:09
Job time : 9.66809 secs

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RESULT 2
US-09-221-298-34
; Sequence 34, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
FILE OF INVENTION: OF COLON CANCER
FILE REFERENCE: 210121.471
CURRENT APPLICATION NUMBER: US/09/221,298
CURRENT FILING DATE: 1998-12-23
NUMBER OF SEQ ID NOS: 112
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 34
LENGTH: 401
TYPE: DNA
ORGANISM: Human
US-09-221-298-34

Query Match 89.9%; Score 245.4; DB 4; Length 401;
Best Local Similarity 97.5%; Pred. No. 1,2e-66;
Matches 268; Conservative 0; Mismatches 5; Indels 2; Gaps 2;

QY 1 GTTGCAATGACCCCAATGTCGAGAAAGTGAACACATTCATTAACAATAAAGACATG 60
25 GTTGCAATGACCCCAATGTCGAGAAAGTGAACACATTCATTAACAATAAAGACATG 84
Db GTGACCCAGGCAATCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120
85 GTGACCCAGGCAATCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 144
QY 121 GTTGCAATTTGATTCCTGAAACATGGAAGCAAGTGTGATGTGAGACCAAACTT 180
145 GTTGCAATTTGATTCCTGAAACATGGAAGCAAGTGTGATGTGAGACCAAACTT 204
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGC-TGAGCTACATCCTCCAGGAAATGATGA 239
205 GAGACCTACAAAATGCTGATGTTCTGTTGC-TGAGCTACATCCTCCAGGAAATGATGA 264
Db 240 ACCCTACACTGNGAGAT-GGGCAACTGTGGCGAG 273
265 ACCCTACACTGNGAGATGGGGCAACTGTGGAGAG 299

RESULT 3
US-09-193-562D-1
Sequence 1, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 1
LENGTH: 3317
TYPE: DNA
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

Query Match 45.6%; Score 124.6; DB 4; Length 3317;
Best Local Similarity 65.7%; Pred. No. 4e-29;
Matches 178; Conservative 0; Mismatches 93; Indels 0; Gaps 0;

QY 2 TTGCAATGACCCCAATGTCGAGAAAGTGAACACATTCATTAACAATAAAGACATG 61
169 TTGCAATTAACCCAGTGTGCGAGAAATGAATAAATCATTTGAATAAAGAAATG 228
QY 62 TGACCCAGGCAATCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAATG 121
229 TAACTGAAGCTTCTACTTACTGTTTCATGCGACCAAAAGAAAGTTTATTTCAAGAAATG 288

QY 122 TTGCAATTTGATTCCTGAAACATGGAAGCAAGAGTGCATGTGAGACCAAACTTG 181
289 TGAGCAATTTTAATTCGAATGACCTGGAATCAAAATCTGATGCTTCAATACCAAAACAG 348
Db 182 AGACCTACAAAATGCTGATGTTCTGTTGCAGTGTGATGCTGAGTAAATGATGAAC 241
349 AATCATATGACGAGGAGATGTCATGATGCTAATCCCTAATTAATAATGAGATGATC 408
QY 242 CCTACACTGNGCAGATGGGCAACTGTGGCGA 272
409 CCTATACACTTCAATATGGAAGGTGGAGA 439

RESULT 4
US-09-193-562D-29
Sequence 29, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 29
LENGTH: 3418
TYPE: DNA
ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 43.9%; Score 119.8; DB 4; Length 3418;
Best Local Similarity 64.6%; Pred. No. 1,2e-27;
Matches 175; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 2 TTGCAATGACCCCAATGTCGAGAAAGTGAACACATTCATTAACAATAAAGACATG 61
125 TTGCAATTAATCCAGTGTGCGAGAAATGAATAAATCATTTCAAAACATTAAGAAATG 184
QY 62 TGACCCAGGCAATCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAATG 121
185 TAACTGAAGCTTCTACTTACTGTTTCATGCGACCAAAAGAAAGCTTATTTCAAGAAATG 244
QY 122 TTGCAATTTGATTCCTGAAACATGGAAGCAAGTGTGATGTGAGACCAAACTTG 181
245 TAACTGAAGCTTCTACTTACTGTTTCATGCGACCAAAAGAAAGCTTATTTCAAGAAATG 304
Db 182 AGACCTACAAAATGCTGATGTTCTGTTGCAGTGTGATGCTGAGTAAATGATGAAC 241
305 AATCATATGACGAGGAGATGTCATGATGCTAATCCCTAATTAATAATGAGATGATC 364
QY 242 CCTACACTGNGCAGATGGGCAACTGTGGCGA 272
365 CCTATACACTTCAATATGGAAGGTGGAGA 395

RESULT 5
US-09-193-562D-33
Sequence 33, Application US/09193562D
Patent No. 6309857
GENERAL INFORMATION:
APPLICANT: Pauli, Benedicht U.
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
FILE REFERENCE: 18617.0052
CURRENT APPLICATION NUMBER: US/09/193,562D
CURRENT FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: US/60/065,922
PRIOR FILING DATE: 1997-11-17
NUMBER OF SEQ ID NOS: 47

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; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

```

Query Match	41.58;	Score 113.4;	DB 4;	Length 3022;
Best Local Similarity	-63.18;	Pred. No. 1.1e-25;		
Matches 171; Conservative	0;	Mismatches 100;	Indels 0;	Gaps 0;

QY	2	TTGGAATCGCCCAATGTGCACAAATGTAACACATCTTCAACAAATTAAGACATGG	61
Db	124	TTGGCAATTAAACCAGGTGTGCAGAGGACGAAAGGCTCATTCGCCAAGCATTAAGAAATGG	183
QY	62	TGACCCAGGCACTCTGTATCTGTTTGAAGCTACAGGAAAGCATTTTATTTCAAAATG	121
Db	184	TAACTCAGGCTTCTACCTACTCTGTTTGAACCGCCAGAGAAAGATTTATTTCAGGACA	243
QY	122	TTGGCAATTTGATCTCCGAAACATGGAAGCAAAAGGTTGACTGTGTGAGACCCAAACTG	181
Db	244	TAAACATATTAGTCCCATGACATCGGAAAGTCGAAATCTGTGTAATCTTAATGCCAAACGAG	303
QY	182	AGACCTACAAAATGCTGATGTTCTGGTTCCTGAGTANTCTCCAGGNAATGATGAAAC	241
Db	304	AATGCTACGACAAAGCAGAGCTCATAGTGTCCGATCTCTACCTGCAACATGAGAGGACC	363
QY	242	CCTACACTGACGACGATGGGCAACCTGTGGCA	272
Db	364	CTTACACCTTTCAGTATGAGACAGTGTGGGA	394

RESULT 6
 US-09-193-562D-31
 : Sequence 31, Application US/09193562D
 : Patent No. 6309857
 : GENERAL INFORMATION:
 : APPLICANT: Pauli, Benedict U.
 : TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 : TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
 : FILE REFERENCE: 18617, 0052
 : CURRENT APPLICATION NUMBER: US/09/193,562D
 : PRIORITY FILING DATE: 1998-11-17
 : PRIOR APPLICATION NUMBER: US/60/065,922
 : PRIORITY FILING DATE: 1997-11-17
 : NUMBER OF SEQ ID NOS: 47
 : SEQ ID NO 31
 : LENGTH: 2970
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 US-09-193-562D-31

Query Match	27.5%	Score 75.2	DB 4	Length 2970
Best Local Similarity	57.1%	Pred. No. 6.2e-14		
Matches 153	Conservative 0	Mismatches 112	Indels 3	Gaps 1
QY	2	TTGCAATGACCCCAATGTGCCAGAGATGAAACACTATTCACAAATTAAGACATGG	61	
Db	242	TTGCAATTAATCTCGAGTACCTGAGATTCGAACCTCATCTCAAAACATTAAGAAATGA	301	
QY	62	TGACCACGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCATTTATTTCAAAATG	121	
Db	302	TAACTGAAGCTTCATTTTACCTATTATTAATGCTACCAACAGAAAGACTATTTTCAAAATA	361	
QY	122	TTGCATTTTGAATTCCTAAACATGGAAGACAAAGCGNAGCAATGTGAGACCAAACTTG	181	
Db	362	TAAAGATTTTAACTCTCCACATGGAAGAGCTAAATTAATAC--AGCAAAATTAACAAG	418	
QY	182	AGACCTACAAAATGCTGATGTCTGGTGTGCTGAGACTAATCCCTCAGGNAATGATGAAC	241	
Db	419	AATCATATGAAGAAGCAATGTCATAGTACGACTGGTATGGGCACATGAGATGATAC	478	
QY	242	CCTACACTGAGCAGATGGGCAACTGTGG	269	

Db 479 CATACACCCTACATAACAGAGGGTGTGG 506

RESULT 7
US-08-072-281-1
; Sequence 1, Application US/08072281
; Patent No. 5495071

GENERAL INFORMATION:
APPLICANT: Fischhoff, David A.
APPLICANT: Fuchs, Roy L.
APPLICANT: Lavrik, Paul B.
APPLICANT: McPherson, Sylvia A.
APPLICANT: Perlak, Frederick J.
TITLE OF INVENTION: Insect Resistant Plants
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:

ADDRESS: LAWRENCE M. LAYIN, U.S. MONSANTO CO.
STREET: 700 Chesterfield Parkway No. 5495071th
CITY: St. Louis
STATE: Missouri
COUNTRY: United States of America
ZIP: 63198
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/072,281

CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/523284
FILING DATE: 14-MAY-1990
ATTORNEY/AGENT INFORMATION:
NAME: Iarvin JI., LAWRENCE M.
REGISTRATION NUMBER: 50,768
REFERENCE/DOCKET NUMBER: 38-21(10629)A
TELECOMMUNICATION INFORMATION:

```

: TELEFAX: (314) 537-6047
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2615 base pairs
: TYPE: NUCLEIC ACID
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: FEATURE:

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; NAME/KEY: CDS
; LOCATION: 205..2139
US-08-072-281-1

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Query Match	11.6%	Score	31.6	DB	1	Length	2615
Best Local Similarity	51.4%	Pred. No.	1.5				
Matches	73	Conservative	0	Mismatches	69	Indels	0
						Gaps	0

QY	1	GTTGCATCGACCCCAATGTGGCCAGAAAGTGAACACCTATTCTCAACAATTAAGGACATG	60
Db	2163	GTGACCATCTATGATAGTAAAGCAAGATAAAAAATGATTCATPAATAATGATTAACATA	2222
QY	61	GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGSAAACGATTTTATTCAAAAT	120
Db	2223	GTGTCTCTCACTTTTGCTTTTGAAGGTGATGAAGAACAATAATTTTATTTTCAAAAT	2282
QY	121	GTTGCCATTTGATTCCTGAAA	142
Db	2283	GAAGGAAGTTTTAAATATGTAA	2304

RESULT 8
US-08-759-446-1
; Sequence 1, Application US/08759446

```

Patent No. 5763241
GENERAL INFORMATION:
APPLICANT: Fischhoff, David A.
APPLICANT: Fuchs, Roy L.
APPLICANT: Lavin, Paul B.
APPLICANT: McPherson, Sylvia A.
APPLICANT: Perlak, Frederick J.
TITLE OF INVENTION: Insect Resistant Plants
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lawrence M. Lavin, Jr., Monsanto Co., BBAF
STREET: 700 Chesterfield Parkway No. 5763241th
CITY: St. Louis
STATE: Missouri
COUNTRY: United States of America
ZIP: 63198
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/759,446
FILING DATE: 05-DEC-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/072,281
FILING DATE:
APPLICATION NUMBER: US 07/523284
FILING DATE: 14-MAY-1990
ATTORNEY/AGENT INFORMATION:
NAME: Lavin Jr. Lawrence M.
REGISTRATION NUMBER: 30,768
REFERENCE/DOCKET NUMBER: 38-21(10629)A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (314) 537-7286
TELEFAX: (314) 537-6047
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2615 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 205..2139
US-08-759-446-1
Query Match 11.6%; Score 31.6; DB 1; Length 2615;
Best Local Similarity 51.4%; Pred. No. 1.5;
Matches 73; Conservative 0; Mismatches 69; Indels 0; Gaps 0;
QY 1 GTTGCATGAGCCCAATGTGCCAGAAATGAAACACTATTCACAAATAAGACGANG 60
11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2163 GTGACCATTAAGATAGTAGCAAAAGATPAAATAATGATTCATPAAATGATACATA 2222
61 GTGACCAGCAGCACTCTGATCTGTTTGAAGCTACAGAAACGATTTATTTCAAAAT 120
11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2223 GTGTTCTTAACCTTGCTTTTGAAGCTAGATGAAGAACACATTTTATTTTCAAAAT 2282
121 GTTGCCATTTTGATTCCTGAAT 142
1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2283 GAAGAAAGTTTAAATATGTAA 2304
1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
RESULT 9
US-09-027-998A-1
; Sequence 1, Application US/09027998A
; Patent No. 6284949
; GENERAL INFORMATION:
; APPLICANT: Fischhoff, David A
; APPLICANT: Fuchs, Roy L
;

```

```

APPLICANT: Perlak, Frederick J
TITLE OF INVENTION: Insect Resistant Plants
NUMBER OF SEQUENCES: 54
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold White and Durkee
STREET: PO Box 4433
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/027,998A
FILING DATE: 23-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Patterson, Melinda L
REGISTRATION NUMBER: 33,062
REFERENCE/DOCKET NUMBER: MBT.195
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
INFORMATION FOR SEQ. ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2615 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-09-027-998A-14

Query Match          11.6%; Score 31.6; DB 4; Length 2615;
Best Local Similarity 51.4%; Pred.No.1.5; Gaps 0
Matches 73; Conservative 0; Mismatches 69; Indels 0; Gaps 0

OY 1 GTTGCAATGCACCCCATGTGCCGAGATGAAACACTCATTCACAATAAAGACATG 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2163 GTGACCATCATATAGTAGTACGAAGATAAAAAATGATTCATAAAAATGAATACATA 2222
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 61 GTGACCCAGGACATCTCTGTATCTGTGTTGAAGCTACAGGAAACGATTTATTCAAAAT 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2223 GTGTCTTCAACCTTCCTTCTTTGAAGGTGATGAGAAACACTATTTATTTTCANAT 2282
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 121 GTTGCCATTTTGATTCCTGAA 142
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2283 GAAGAACTTTTAATATGTAA 2304
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 10
US-09-031-442A-21
; Sequence 21, Application US/09031442A
; Patent No. 5955310
; GENERAL INFORMATION:
; APPLICANT: Widner, William
; APPLICANT: Sloma, Alan
; APPLICANT: Thomas, Michael D.
; TITLE OF INVENTION: Methods for Producing A Polypeptide
; TITLE OF INVENTION: In A Bacillus Cell
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 59553100 No. 5955310disk of No. 5955310th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0

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;; CURRENT APPLICATION NUMBER: US/09/499,884
;; CURRENT FILING DATE: 2000-02-08
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 11
;; LENGTH: 3663
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-499-884-11

Query Match 11.1%; Score 30.4; DB 4; Length 3663;
Best Local Similarity 61.2%; Pred. No. 4.1;
Matches 49; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 18 TGTGCCAGAAATGAACTCATTCACAAATTAAGGACATGTGACCGCATCTCT 77
DB 939 TGGGCAACATGAAAGAACTGTCTTACAAAAATTAAGCCAGCATGGTG 998
QY 78 GTATCTGTGGAAGCTACAG 97
999 GTATGCACTGTAGTTCCAG 1018

RESULT 14

US-09-651-011A-3/C
;; Sequence 3, Application US/09651011A
;; Patent No. 6346416
;; GENERAL INFORMATION:
;; APPLICANT: Nicholas M. Dean
;; APPLICANT: Lex M. Cowsett
;; TITLE OF INVENTION: ANTISENSE MODULATION OF HPK/GCK-LIKE KINASE EXPRESSION
;; FILE REFERENCE: RPS-0168
;; CURRENT APPLICATION NUMBER: US/09/651,011A
;; CURRENT FILING DATE: 2000-08-29
;; NUMBER OF SEQ ID NOS: 49
;; SEQ ID NO 3
;; LENGTH: 4266
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (1)...(3528)
US-09-651-011A-3

Query Match 10.8%; Score 29.6; DB 4; Length 4266;
Best Local Similarity 51.5%; Pred. No. 7.7;
Matches 68; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 11 ACCCCATGTGCCAGAAAGATGAACTCATTCACAAATTAAGGACATGTGACCGCAGG 70
DB 368 AACACATTCGTGCCCTTGATATCCCGGTGATCAACATGATGAATGTGCCAGT 309
QY 71 CATCTGTATCTGTTGACCTACAGGAAAGCATTTTAAATTTGATTTGCCATTT 130
DB 308 CCCCTCAGATTTCTCTGAGATGTAAAGCATCCAGTCTCTTGTGAGTGTTCCTTTG 249
QY 131 TGATTCCTGAAA 142
DB 248 GTGTTCTTCACA 237

RESULT 15

US-08-642-846-1
;; Sequence 1, Application US/08642846
;; Patent No. 5886151
;; GENERAL INFORMATION:
;; APPLICANT: HOSTETTER, MARGARET K.
;; APPLICANT: GALE, CHERYL A.
;; APPLICANT: BENDEL, CATHERINE M.
;; APPLICANT: TAO, NIAN-JUN
;; APPLICANT: KENDRICK, KATHLEEN
;; TITLE OF INVENTION: CANDIDA ALBICANS GENE, INTEGRIN-LIKE
;; TITLE OF INVENTION: PROTEIN, ANTIBODIES, AND METHODS OF USE

;; NUMBER OF SEQUENCES: 12
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MUEITING, RAASCH, GERHARDT & SCHNAPPACH, P.A.
;; STREET: 119 NORTH FOURTH STREET, SUITE 203
;; CITY: MINNEAPOLIS
;; STATE: MINNESOTA
;; COUNTRY: USA
;; ZIP: 55401
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/642,846
;; FILING DATE: 03-MAY-1996
;; CLASSIFICATION: 424
;; ATTORNEY/AGENT INFORMATION:
;; NAME: MUEITING, ANN M.
;; REGISTRATION NUMBER: 33,977
;; REFERENCE/DOCKET NUMBER: 110,00280101
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 612-305-1217
;; TELEFAX: 612-305-1228
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 5194 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
US-08-642-846-1

Query Match 10.8%; Score 29.6; DB 2; Length 5194;
Best Local Similarity 49.0%; Pred. No. 8.3;
Matches 77; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 58 ATGTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCATTTATTTCAAA 117
DB 3850 ATGTTTCTGTCTCTTCCATCAGATTAAGTACTGATCAACGGTTCACAGATGAAAAA 3909
QY 118 AATGTGCCATTTTGAATCTCTGAAACATGGAAGAGCATATGTGAGACCAAA 177
DB 3910 GATGTTCAACCAAGCCTCGTGAAGCAAAAGCAAAAGCATATCCATGCCATCAT 3969
QY 178 CTGAGACTACAAAATGCTGATGTTCTGTGCTG 214
DB 3970 CATCATATTAACAAAACACTGATATTCGGGCTGTG 4006

Search completed: October 17, 2002, 10:41:13
Job time : 20.8369 secs

Query					ID	Description
No.	Score	Match	Length	DB		
1	2971.8	99.6	3007	4	US-09-193-5620-27	Sequence 27, Appl1
2	900.2	30.2	3317	4	US-09-193-5620-1	Sequence 1, Appl1
3	840.6	28.2	3032	4	US-09-193-5620-33	Sequence 33, Appl1
4	832.6	27.9	3418	4	US-09-193-5620-29	Sequence 29, Appl1
5	790.8	26.5	878	1	US-08-469-667-8	Sequence 8, Appl1
6	790.8	26.5	878	4	US-09-224-110-8	Sequence 8, Appl1
7	790.8	26.5	878	5	PCT-US95-07289-8	Sequence 8, Appl1
8	552.2	18.5	2970	4	US-09-193-5620-31	Sequence 31, Appl1
9	323.8	10.9	401	4	US-09-221-298-34	Sequence 34, Appl1
10	228.2	7.7	576	4	US-09-385-982-25	Sequence 23, Appl1
11	221.4	7.4	595	4	US-09-385-982-25	Sequence 25, Appl1
12	200.8	6.7	618	4	US-09-385-982-24	Sequence 24, Appl1
13	183.4	6.1	611	4	US-09-385-982-37	Sequence 27, Appl1
14	168.6	5.7	742	4	US-09-385-982-37	Sequence 37, Appl1
15	95.4	3.2	335	4	US-09-193-5620-14	Sequence 14, Appl1
16	52	1.7	7218	1	US-08-232-463-14	Sequence 14, Appl1
17	38.6	1.3	5156	2	US-09-091-432-3	Sequence 3, Appl1
18	36.6	1.2	2854	4	US-08-936-1655-66	Sequence 66, Appl1
19	36.4	1.2	8700	2	US-08-392-625-15	Sequence 16, Appl1
20	36.4	1.2	8700	2	US-08-466-9614-16	Sequence 16, Appl1
21	36.4	1.2	8700	2	US-08-645-1938-18	Sequence 18, Appl1
22	36	1.2	3158	2	US-08-645-17-36	Sequence 36, Appl1
23	36	1.2	3158	2	US-08-246-3614-36	Sequence 36, Appl1
24	36	1.2	3158	3	US-08-463-772-36	Sequence 36, Appl1
25	35.6	1.2	4211	4	US-09-004-838-106	Sequence 106, Appl1
26	35.2	1.2	3058	4	US-09-276-531-13	Sequence 107, Appl1
27	35	1.2	1794	3	US-09-012-5154-13	Sequence 13, Appl1

28	1.2	1794	3	US-08-360-144A-13	Sequence 13, Appl
29	1.2	1794	5	PCR-US95-06722-13	Sequence 13, Appl
30	1.2	805	1	US-08-118-469A-6	Sequence 6, Appl
31	1.2	805	1	US-08-909-119-6	Sequence 6, Appl
32	1.2	6924	1	US-08-015-973-2	Sequence 2, Appl
33	1.2	6924	2	US-08-448-164-2	Sequence 2, Appl
34	1.2	19124	2	US-08-487-826B-13	Sequence 13, Appl
35	1.2	5923	4	US-09-064-922-3	Sequence 7, Appl
36	1.1	3600	4	US-08-855-910-7	Sequence 7, Appl
37	1.1	5319	1	US-08-169-921-1	Sequence 1, Appl
38	1.1	1566	4	US-08-871-572B-2	Sequence 2, Appl
39	1.1	2255	4	US-08-871-572B-3	Sequence 3, Appl
40	1.1	3447	1	US-08-252-995D-3	Sequence 3, Appl
41	1.1	3447	2	US-08-834-108-3	Sequence 3, Appl
42	1.1	3182	4	US-08-971-395-1	Sequence 1, Appl
43	1.1	3183	1	US-08-413-135-1	Sequence 1, Appl
44	1.1	4030	4	US-08-569-214-4	Sequence 4, Appl
45	1.1	4030	4	US-08-937-236-4	Sequence 4, Appl

ALIGNMENTS

```

RESULT 1
US-09-193-562D-27
: Sequence 27, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
: FILE REFERENCE: 18617 0052
: CURRENT APPLICATION NUMBER: US/09/193,562D
: CURRENT FILING DATE: 1996-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 27
: LENGTH: 3007
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-193-562D-27

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Query Match	99.6%;	Score 2971.8;	DB 4;	Length 3007;
Best Local Similarity	99.8%;	Pred. No. 0;		
Matches 2976;	Conservative	0;	Mismatches 7;	Indels 0;
			Gaps	0;

QY	1	GAATTCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCAATCTTGATT	60
Db	23	GGATTCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCAATCTTGATT	82
QY	61	CTTCACTCTTAGAAGGGGCCCTGAGTAATTCACATTCAGCTGAACCAACATGGCTAT	120
Db	83	CTTCACTCTTAGAAGGGGCCCTGAGTAATTCACATTCAGCTGAACCAACATGGCTAT	142
QY	121	GAAGCAATGTGCTGTGCAATGACAGCCCAATGTGCCAAGATGGAACATCATTCACAA	180
Db	143	GAAGCAATGTGCTGTGCAATGACAGCCCAATGTGCCAAGATGGAACATCATTCACAA	202
QY	181	ATAAAGCATGTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGAAACGATTT	240
Db	203	ATAAAGCATGTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGAAACGATTT	262
QY	241	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	300
Db	263	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	322
QY	301	AGACCAAAACTTGAGACCTACAAAATGCTGATGTCTGGTGTCTGAGTCTACTCTCCA	360
Db	323	AGACCAAAACTTGAGACCTACAAAATGCTGATGTCTGGTGTCTGAGTCTACTCTCCA	382
QY	361	GGTATATGATGACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTTGAAAGATC	420

Db 383 GGTAAATGATGAACCTCTACACTGACAGATGGGCAACTGTGGAGAGAAAGGCTGAAGATC 442
Qy 421 CACCTCACTCTGATATTCATTGTCAGAGAAAAAGTTAGCTGAATATGACCAAGTAG 480
Db 443 CACCTCACTCTGATATTCATTGTCAGAGAAAAAGTTAGCTGAATATGACCAAGTAG 502
Qy 481 GATATTTGCCATGAGAGGGGCTCATCTACAGATGGGGATTTTGGAGAGATCAATATGAT 540
Db 503 GATATTTGCCATGAGAGGGGCTCATCTACAGATGGGGATTTTGGAGAGATCAATATGAT 562
Qy 541 GAGAAATTCATCTATATCCATGATGAAGAAATACAAAGCATAGATGTTTCCAGAGTATTACT 600
Db 563 GAGAAATTCATCTATATCCATGATGAAGAAATACAAAGCATAGATGTTTCCAGAGTATTACT 622
Qy 601 GGTACAAATGTAGTAAAGAGTGTCAAGGAGCAGCTGTTTACACCAAAAGATGACATTC 660
Db 623 GGTACAAATGTAGTAAAGAGTGTCAAGGAGCAGCTGTTTACACCAAAAGATGACATTC 682
Qy 661 AATTAAGTAAAGGAGCTCATGTGAAAAAGATGTGAGTTTGTCTCCATCCCGCAGAGC 720
Db 683 AATTAAGTAAAGGAGCTCATGTGAAAAAGATGTGAGTTTGTCTCCATCCCGCAGAGC 742
Qy 721 GAGAAAGCTTCTATTAATGTTTGGACAACAATGTGATTTCTATAGTTGAATTTCTGTACAGAA 780
Db 743 GAGAAAGCTTCTATTAATGTTTGGACAACAATGTGATTTCTATAGTTGAATTTCTGTACAGAA 802
Qy 781 CAAACCCACAAACAAGAGCTCCAAACAAGCAAAATCAAAATGCAATCTCCGAAACACA 840
Db 803 CAAACCCACAAACAAGAGCTCCAAACAAGCAAAATCAAAATGCAATCTCCGAAACACA 862
Qy 841 TGGGAGTGTATCCGATTCGTAGAGACTTTAAGAAAAACCACTCCATGACACACAGCCA 900
Db 863 TGGGAGTGTATCCGATTCGTAGAGACTTTAAGAAAAACCACTCCATGACACACAGCCA 922
Qy 901 CCAAAATCCACCTTCTCATCTGTCAGATTTGACAAAAGATTTGTGTGTTAAGTCTTGAC 960
Db 923 CCAAAATCCACCTTCTCATCTGTCAGATTTGACAAAAGATTTGTGTGTTAAGTCTTGAC 982
Qy 961 AATTAAGTAAAGGAGCTCATGTGAAAAAGATGTGAGTTTGTCTCCATCCCGCAGAGC 1020
Db 983 AATTAAGTAAAGGAGCTCATGTGAAAAAGATGTGAGTTTGTCTCCATCCCGCAGAGC 1042
Qy 1021 TTCTGCTGACAGAGTTGAGCTGGGGTCTGTGGGTTGGATGTTGACATTTGACAGTCT 1080
Db 1043 TTCTGCTGACAGAGTTGAGCTGGGGTCTGTGGGTTGGATGTTGACATTTGACAGTCT 1102
Qy 1081 GCCCATGTAAAGAGTAACTATACATACAGATTAACAGTGGCAGTACAGGGACACACTGCC 1140
Db 1103 GCCCATGTAAAGAGTAACTATACATACAGATTAACAGTGGCAGTACAGGGACACACTGCC 1162
Qy 1141 AAAAAGTTACCTGACAGAGCTTCAGAGGAGCCTCATCTGACAGCGGGCTTCGATCGGCA 1200
Db 1163 AAAAAGTTACCTGACAGAGCTTCAGAGGAGCCTCATCTGACAGCGGGCTTCGATCGGCA 1222
Qy 1201 TTTACTGTGATTAAGAGAAATATCAACTGATGATCTGAATTTGTCTGCTGACGGAT 1260
Db 1223 TTTACTGTGATTAAGAGAAATATCAACTGATGATCTGAATTTGTCTGCTGACGGAT 1282
Qy 1261 GGGGAACAACAACNTAATAAGTGGGTGTTTAAAGAGGTCAAAACAAGTGGTGCATATC 1320
Db 1283 GGGGAACAACAACNTAATAAGTGGGTGTTTAAAGAGGTCAAAACAAGTGGTGCATATC 1342
Qy 1321 CACACAGTCTGCTTTGGGGCCTCTGACAGCTCAGAACTAGAGAGCTGTCCAAATGACA 1380
Db 1343 CACACAGTCTGCTTTGGGGCCTCTGACAGCTCAGAACTAGAGAGCTGTCCAAATGACA 1402
Qy 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACAATGGCTCATTTGATCTTTT 1440
Db 1403 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACAATGGCTCATTTGATCTTTT 1462
Qy 1441 GGGGCCCCCTTTATCAGAGAAAGAGAGCTGTCTCAGAGGCTCCATCCAGCTGAGATGAG 1500
Db 1463 GGGGCCCCCTTTATCAGAGAAAGAGAGCTGTCTCAGAGGCTCCATCCAGCTGAGATGAG 1522

Qy 1501 GGATTAACCTTCAGAAACAGCCAGTGAATGATGGACAGTATCTGGACAGCAGCTG 1560
Db 1523 GGATTAACCTTCAGAAACAGCCAGTGAATGATGGACAGTATCTGGACAGCAGCTG 1582
Qy 1561 GGAAGAGACCTTTGTTTCTTATATCACTGTGACAAACGACGCTCCCAATCTCTCTGG 1620
Db 1583 GGAAGAGACCTTTGTTTCTTATATCACTGTGACAAACGACGCTCCCAATCTCTCTGG 1642
Qy 1621 GATCCCACTGACAGAACCAAGTGGCTTTGATGGGCAAAACACCAAAATGGCTTAC 1680
Db 1643 GATCCCACTGACAGAACCAAGTGGCTTTGATGGGCAAAACACCAAAATGGCTTAC 1702
Qy 1681 CTCCAATCCAGAGCTTGTCTAAGTGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740
Db 1703 CTCCAATCCAGAGCTTGTCTAAGTGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1762
Qy 1741 CAAACCTTGACCTGACGTGTACGTCGCCGTGCTCAATGCTACCTGCTCCATTTACA 1800
Db 1763 CAAACCTTGACCTGACGTGTACGTCGCCGTGCTCAATGCTACCTGCTCCATTTACA 1822
Qy 1801 GTGACTTCCAAAGACAAAGGACACAGCAAAATCCCAAGCCTCTGTAGTTATGCA 1860
Db 1823 GTGACTTCCAAAGACAAAGGACACAGCAAAATCCCAAGCCTCTGTAGTTATGCA 1882
Qy 1861 AATTAATCCGCAAGAGACCTCCCAATTTCTCAGGGGCAAGTGTACAGCCCTGATTAATCA 1920
Db 1883 AATTAATCCGCAAGAGACCTCCCAATTTCTCAGGGGCAAGTGTACAGCCCTGATTAATCA 1942
Qy 1921 GTGATGAAAAACAAGTTCCTTGGAACTAGTGAATGAGAGGAGGTGCTATCTACT 1980
Db 1943 GTGATGAAAAACAAGTTCCTTGGAACTAGTGAATGAGAGGAGGTGCTATCTACT 2002
Qy 1981 AAGGATGAGCGTGTCTACTCAAGGTATTTACAACTTATGACAGAAATGATGATACAGT 2040
Db 2003 AAGGATGAGCGTGTCTACTCAAGGTATTTACAACTTATGACAGAAATGATGATACAGT 2062
Qy 2041 GTTAAAGTCCGGGCTCTGTGGAGAGTTAACGACCAAGCAGAGTGTATCCCAAGCAG 2100
Db 2063 GTTAAAGTCCGGGCTCTGTGGAGAGTTAACGACCAAGCAGAGTGTATCCCAAGCAG 2122
Qy 2101 AGTGGAGCACTGTACATCTACCTGGCTGGATTTGAGAAATGATGAATCAATGAAATCACCA 2160
Db 2123 AGTGGAGCACTGTACATCTACCTGGCTGGATTTGAGAAATGATGAATCAATGAAATCACCA 2182
Qy 2161 AGACCTGAATTAATTAAGATGATGTTCAACAACAAGCAAGTGTGTTCAAGCAAAATCC 2220
Db 2183 AGACCTGAATTAATTAAGATGATGTTCAACAACAAGCAAGTGTGTTCAAGCAAAATCC 2242
Qy 2221 TCGGGAGGCTCATTTGTGGCTGTGATGTTCCAAATGCTCCCATCTGATCTTCCCA 2280
Db 2243 TCGGGAGGCTCATTTGTGGCTGTGATGTTCCAAATGCTCCCATCTGATCTTCCCA 2302
Qy 2281 CTTGGGCAAAATCAACGACCTGGAAGGGGAAATTCACGGGGGCAAGTCTCATTAATCTGACT 2340
Db 2303 CTTGGGCAAAATCAACGACCTGGAAGGGGAAATTCACGGGGGCAAGTCTCATTAATCTGACT 2362
Qy 2341 TGGACAGCTCTCGGGGATGTTATGACATGAAACGCTCACAGATATCATTTGCAAAAT 2400
Db 2363 TGGACAGCTCTCGGGGATGTTATGACATGAAACGCTCACAGATATCATTTGCAAAAT 2422
Qy 2401 AGTACAAAGTCTTGTGATCTCAGACAAAGTTCAAAGATCTTCAAGGAAATCTACT 2460
Db 2423 AGTACAAAGTCTTGTGATCTCAGACAAAGTTCAAAGATCTTCAAGGAAATCTACT 2482
Qy 2461 GCTCTCATCCCAAGAGCAACTCTGAGAGAGTCTTTTGTGTTAAACAGAAACATTT 2520
Db 2483 GCTCTCATCCCAAGAGCAACTCTGAGAGAGTCTTTTGTGTTAAACAGAAACATTT 2542
Qy 2521 ACTTTGAAAAATGGCAGATCTTTTCATGTTGATTCAGGCTTTGATTAAGTGCATCTG 2580
Db 2543 ACTTTGAAAAATGGCAGATCTTTTCATGTTGATTCAGGCTTTGATTAAGTGCATCTG 2602

Qy	2581	AAATCAGAAATATTCACAACATTCGACGAGATATCTTTGTTATTCTCCACAGACTCCGCA	2640
Dp	2603	AAAACAGAAATATTCACAACATTCGACGAGATATCTTTGTTATTCTCCACAGACTCCGCA	2662
Qy	2641	GAGACACCTATGCTCTGATGAAACGTCTGCCTCTGCTCAATATTCATATCACAAGCAC	2700
Dp	2663	GAGACACCTATGCTCTGATGAAACGTCTGCCTCTCTTGTCTCAATATTCATATCACAAGCAC	2722
Qy	2701	ATTTCCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGGATAGGAACCTCAGCTGCA	2760
Dp	2723	ATTTCCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGGATAGGAACCTCAGCTGCA	2782
Qy	2761	ATATCCCTAGGGCTGGAATTTTGTGCACATATAATTAATATTCATCTTTTGTGA	2820
Dp	2783	ATATCCCTAGGGCTGGAATTTTGTGCACATATAATTAATATTCATCTTTTGTGA	2842
Qy	2821	TTATTAATAATTTTCTAAAAATGTATTTTATGACTCTCGTAGGGGGCATPACTAAATGTAT	2880
Dp	2843	TTATTAATAATTTTCTAAAAATGTATTTTATGACTCTCGTAGGGGGCATPACTAAATGTAT	2902
Qy	2881	ATATGACATTTTATACATAAATGTATTCCTGTAGGGGGCATATACATAAATGTATTTTATGAC	2940
Dp	2903	ATATGACATTTTATACATAAATGTATTCCTGTAGGGGGCATATACATAAATGTATTTTATGAA	2962
Qy	2941	TTTCTGTAGGGGGCATATAAATTAATTCGTAACAACATCTGGTA	2983
Dp	2963	TTTCTGTAGGGGGCATATAAATTAATTCGTAACAACATCTGGGA	3005

RESULT 2
 US-09-193-562D-1
 : Sequence 1, Application US/09193562D
 : Patent No. 6309857
 : GENERAL INFORMATION:
 : APPLICANT: Pauli, Benedict U.
 : TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
 : TITLE OF INVENTION: Activated Chloride Channel Adhesion Molecules
 : FILE REFERENCE: 18617.0052
 : CURRENT APPLICATION NUMBER: US/09/193,562D
 : CURRENT FILING DATE: 1998-11-17
 : PRIOR APPLICATION NUMBER: US/60/065,922
 : PRIOR FILING DATE: 1997-11-17
 : NUMBER OF SEQ ID NOS: 47
 : SEQ ID NO 1
 : :
 : LENGTH: 3317
 : TYPE: DNA
 : :
 : ORGANISM: Unknown
 : :
 : FEATURE:
 : OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
 : OTHER INFORMATION: protein from bovine endothelial cells
 : US-09-193-562D-1

Query Match	30.2%	Score 900.2;	DB 4;	Length 3317;
Best Local Similarity	61.4%	Pred. No. 2.6e-257;		
Matches 1635; Conservative	0;	Mismatches 978;	Indels 48;	Gaps 10;

QY	5	TCACAGGAGATGTACACGCAATGGGGCCATTAAAGTCTGTGTTTCATCTTGATCTTTC	64
Db	43	TTACTGTAACTATGGGCAAAAATGGTGTCTGTGGAATGTTATCTTCTTCCCTAACTTGC	1020
QY	65	ACCTTTAGAAAGGGGCCCTGAGTAACTACATTCATTCAGCTGAACACAACTGGCATAG	124
Db	103	ATCTCTTCCCTCG---AATGAAAAGTTCATGTGTAATTTGATTACAAATGGGTATGATG	159
QY	125	GCATTTGCTGTGCATGACACCCCAATGTGCCAGAAAGTGAACACATCTATTCACAAATA	184
Db	160	GCATTTGCATTCGAATTAACCCCACTGTGCGAGAAAGATGAAAACTATGAAAACATA	219
QY	185	AGGACATGGTCACCCACAGGCATCTGTATATCGTTTGAAGTAAACAGAAACGATTTATT	244
Db	220	AGGAAATGTGTACGAAGCTTCTACTTACCTGTTTCACTGCACCCAAACGAAGGATTTATT	279
QY	245	TCAAAATGTGGCCATTTTGAATTCCTAATAACATGGAAGACAAAGGCTGACATATGTGAGAC	304

Db	280	TCAGGAATGTGAGCATTTTAAATCCAAATGACCTGGAAATCAAAATCTGATCTTCAATC	339
QY	305	CAAAACCTTGAGACCTTACAAAAATGCGATTTTCGTGCTCGTAGCTACTCTCCAGSTA	364
Db	340	CAAAACGAAGATCTATGACCAGCAGATGTCTATGTTCTGAATCCCTATCTTAAATATG	399
QY	365	ATGATGAACCCCTACAGTCAGCAGATGGGCACTGTGAGAGAAGGGTGAAAGATCCACC	424
Db	400	GAGATGATCCCTATACCTTCAATATGGAAGGTGTGGAAAAAGGAAATATATATACAT	459
QY	425	TCATCCTCGATTTTATGTCAGAGAAAAAGTTACTGAATATGTGACCACAAAGTATGGCAT	484
Db	460	TTATCTCCAACTTTCTTTGACTAATTAATTTCCATCTATGGGTCCGACGACAGATAT	519
QY	485	TTGTCCATGAGTGGGCTCATCTAGTACGATGGGAGTATTTGACGATCAATTAATGTAGA	544
Db	520	TTTGCTCATGATGGGCCATCTCCGCTGGGGAAATTTTATGATTAATGTGGACCCAGC	579
QY	545	AATTCCTACTATCC--AATGGAAGATACACAGTAAGATGTTCCAGCAGGATTTACTG	601
Db	580	CATCTATATTTCCAGAAAGAACATATTGAACACAAAGATGTTCACTCATATTACTG	639
QY	602	GTACCAATGTAG--TAAAGAGTGTACGGAGGCACTGTTTACACCAAAAGATCCACAT	658
Db	640	GTAATTAATGTGGTTTCCAAAGAAATGGCCCTGGAGGAGCTGTATTAACATCTATCCAGAC	699
QY	659	TCATTAAGTAAAGAGAGCTCATGAAAAAGATGATGTTGTTTCCCAATCCCGCCAGA	718
Db	700	GTGACTCCACAGAGGCTGTATGAAACCAAAATGTATCATTTCTCCAAAAAAATCCCA	759
QY	719	CGAGAAAGGCTTCTATATGTTTGTGACAAACATGTTATCTATAGTTGAATCTGTACAG	778
Db	760	CTCGAAGAGATTCATATATGTTTATGTGCAAGTCCATCTCTGTGACTGAATTTTGTACAG	819
QY	779	AACAAACACACAAAGAAAGCTCCAAACAGCAAGCAAAATATCAATCTCCGAGCA	838
Db	820	AAAAAACAACAATACAGAGAGCTCCAAACCTCAAAACAAATATGTGCATGTGCAAAACGA	879
QY	839	CATGGGAAGTATCCGATTTCTGAGAGACTTTAAGAAAAACACTCCTATGACA-----A	892
Db	880	CATGGGATGTATATGTAACCTCTGTGACTTCAGATTCATCTCCACAGACAGAAATGA	939
QY	893	CACAGCCACCAATCCCACTCTCATGTCGTGAGATTGACAAAGAAATGTGTGTATG	952
Db	940	ATCCACGCACTCATCTCACTTTTCAATGCTCAAGTCCAAACAGCGGGTAGCTTTGG	999
QY	953	TCCTTGACAAATCTGGAAGCATGGCAGCTGTAAACCGCCTCATGCACTGAATCAAGCAG	1012
Db	1000	TACTTGAATTAATCTGGAAGCATGTCTGCAAGAACCGCTCTCTTCAAAATGAATCAAGCAG	1059
QY	1013	GCCAGCTTTTCTCTCTCAGACAGCTGTAGCTGGGGTCTGGGTTGGGATGTGACATTTG	1072
Db	1060	CAGAACATATCTTATTTCAAGTATTTGAAGAAAGGATCTTTAGTGGAGGTTTACATTTG	1119
QY	1073	ACAGTGGGCCATGTCAAGAGCACTCTATACAGATTAACAGTGGCAGTGCACAGGCA	1122
Db	1120	ACAGTGTGTGAAATCCAAAAATCATCTTACAGAAATTACTATGTATGTTTTACCAA	1179
QY	1133	CACCTGCCAAAAAGATTTACCTCGCAGACAGCTTCAGAGAGGAGCTCATCTGCACGGGCTTC	1192
Db	1180	AGATACCGCAAAACCTCCTCAAGTAGCTAATGTGGAACTTCAATTTGTAGAGGGCTCA	1239
QY	1193	GATCGGCATTTACTGTATTAAGAGACA--AATATCCAACCTATGAGATCTGAATTTGTGC	1249
Db	1240	AAGCAGAGATCCAGGCAATTTATCCACAGTACCCAGAGTACTCTGTGTTGAAATCATAC	1299
QY	1250	TGCTGAGGATGGGGAAGAACACATATTAAGTGGGCTTTAAGCAGGTCAAACAAATGTG	1309
Db	1300	TATTAACGTATGGGAAGATTAATGAATTAATTCATGCTTTAGGATGTAAACGAAATG	1359
QY	1310	GTGCAATCATCCACACAGTGCCTTTGGGGCCCTCTGACAGCTCAAGAACTAGAGAGCTGT	1369

Db 1360 GTGCATATCATCCACACATTCGCTGGGACCTCTGCTGCCAAGAAGACATGAGACATTC 1419
QY 1370 CCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTGAGAAATGGCTCA 1429
Db 1420 CAAATATGACAGAGATATCGTTTTTTTCCAAATMAAACATA-----ACTGGCTTAA 1473
QY 1430 TTGATGCTTTTGGGGCCCTTTCAGSAAATGAGAGCTGCTCTGACGGCTCCATCCAC 1489
Db 1474 CTAAATGCTTCAATTAATTTATCTAGAAAGTGAAGTCACTGACGAGCTTATTCAGT 1533
QY 1490 TTGAGATGAGGATTAACCTCCAGAACGCCAGTGAATGATGAGCAGTATGCTGTG 1549
Db 1534 TGGAAAGCAAAAGCTTGAAATTTACGAGAAAGAAAGATTAACGCGACAGTGGCTGTAG 1593
QY 1550 ACAGACCGTGGGAAAGACACTTTTCTTATCTACCTGGACACGCGACCTCCCAAA 1609
Db 1594 ACAGTACAGTTGGAAATGACACTTTCTTTGTGTCTACATGACAAATCAAAAACCGAAA 1653
QY 1610 TCCCTGCTGGGATGCCCATGGACAGAGCA-----AGGTGGCTTTGTATGGACA 1660
Db 1654 TTGTTCTCAAGATCCAAAAGAAAGAAATATTAACCTCGGATTTCAAGAAGATTAAGT 1713
QY 1661 AAAACACAAATAGCTTACTCTCAATCCAGGACATTCGTAAGTTGGCATTTGGAAT 1720
Db 1714 TAAATTTGATGCTGCTCGTCAATATACCTGTATTTGAGAGACAGTACTTGGACTT 1773
QY 1721 ACAGTCT-----GCAAGCAAGCTCACAAACCTTTGACCCCTGATGTCAGCTCCCGTG 1771
Db 1774 ACAGCTTTTAATTAATTAATGACGAGCTCAATGCTCAATGCTAAGTACAGTACAGT 1833
QY 1772 CGCCATGCTACCTGCTCCATTCATTAACAGTGAATTCGCAAAAGCAAGACAGCAGCA 1831
Db 1834 CAAAGATGCTACTATATACCCCAAGTATTCAGACAGCTCATGATGATCAACATACAGCA 1893
QY 1832 AATTTCCACAGCTCTGTGATGTTATGCAAAATTTGCGCAAGAGCCTCCCAATTTCTCA 1891
Db 1894 ATATCTCTAGCCCAATGATGTTATGACAACTGATGACAGTGGTTTGGCTGTACTGG 1953
QY 1892 GGGCCAGTGCACAGCCCTATTTGAATCAGTGAATGGAAGAAACAGTTACTTGGACTAC 1951
Db 1954 GAATCATGTTAATGACATTAATGAAACCGAAGATGACATCAAGTATTCAGTGTGAGCTCT 2013
QY 1952 TGGATATGAGAGCAGTGTCTACTACTAATAGGATGACGGTGTCTACTCAAGGTATTCTCA 2011
Db 2014 GGGCATATGTTGACAGGTCGATGATCTGCAAGATGATGATGATCTACTCAAGATCTTAA 2073
QY 2012 CAACCTATGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2071
Db 2074 CAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2133
QY 2072 CAGCAGACGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2131
Db 2134 CGGCTAGGCTTAATTTAAGACACACAGAAAGTTCTATATGTTCCAGAGGCTAGCTTG 2193
QY 2132 AGAATGATGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2191
Db 2194 AAAACGGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2253
QY 2192 ACAAGCAAGTGTGTTTACAGACAAATCTCGAGAGGCTATTTGGCTCTGATGATGCT 2251
Db 2254 CTAAATTAAGAGACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2313
QY 2252 CAAATGCTTCCA---TACGTGATCTCTTCCACCTGGCCAAATATCCAGGACCTGAAGCGG 2308
Db 2314 CTCTCTCTGTTATACCTCTTCTGTGTCTTCCACCACTAAATTAATTAATTAATTAATTAAT 2373
QY 2309 AATTTCAAGGAGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAATGACC 2368
Db 2374 AGTTCAAGAG---ATTATATTAACCTTTCATGACAGCCCGCGCAATGCTCTAGATA 2430
QY 2369 ATGGAACAGCTCAACATATATCTTGAATTAATTAATTAATTAATTAATTAATTAATTAAT 2428
Db 2431 AAGGAAAGCCACAGCTTACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2490

QY 2429 AGTTCAATGAATCTCTGAGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2488
Db 2491 ATTGTAACAAATGCGACTTTAGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2550
QY 2489 AGGAAGCTTTTGTGTTTAAACAGAAACATTAATTTTGAATAATGGACAGATCTTTTCA 2548
Db 2551 AAGAAATTTTGAATTTAAGCCAGAAACATTTTAGAGTGAATAATGGCCAAATTTCTATA 2610
QY 2549 TTGCTATTCAGGCTGTTGATTAAGTCAATGTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2608
Db 2611 TTTTCAGTCCAAACCTCAACGAGAGCAATTCATCTCAGAGGTTTCTACATTTGATCAAG 2670
QY 2609 TATCTTTGTTTATCTCCAC 2629
Db 2671 CAATCAATTTATTCCTCTAC 2691

RESULT 3
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicte U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617, 0052
; CURRENT FILING DATE: US/09/193, 562D
; PRIOR APPLICATION NUMBER: US/60/065, 922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match 28.2%; Score 840.6; DB 4; Length 3022;
Best local similarity 60.5%; Pred. No. 1.3e-239;
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;

QY 91 TCACCTATTCAGCTGGAACAACATGCTATGAAAGCATTTGTTGATTCGATCGACCCCAAT 150
Db 81 TCCATGTCATCTCAACAGCAATGATGAGGCTGATGCTATTCGATTAACCCCACT 140
QY 151 GTGCCAGAGATGAACACTATTCACAAATTAAGACATGATGATGATGATGATGATGATGATGATGAT 210
Db 141 GTGCCAGAGAGCAAAAGGCTCATCCCAAGCATTAAGGAATGATGATGATGATGATGATGATGATGAT 200
QY 211 TATCTGTTGAAGCTACAGAAAGGATTTTATTTCAAAAATGTTGCCATTTGATTCCT 270
Db 201 TACCTGTTGAAGCCAGCAAGGAGAAAGATTTATTTGAGAAACATAAGATTAATTAAGTCCCG 260
QY 271 GAAACATGGAAGCAAGGCTGATGAGAGCAAACTTGAGAGCTACAAATAATGCT 330
Db 261 ATGACCTGGAAGTCGAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 320
QY 331 GATGTTCTGTTGCTAGTCTACTCTCCAGGTAATGATGAAACCTTACACTGAGAGATG 390
Db 321 GAGTCTATGTTGCGGATCTCTCACTGCAACATGAGAGAGACCCCTACACCTTCAGTAT 380
QY 391 GGCACGTTGAGAGAGAGGCTGAAGAGATCCACTCACTCTGATTTTCATTTGAGAGAAA 450
Db 381 GGACAGTGTGGGAGAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 440
QY 451 AAGTTAGCTAATTAATGAGACACAGATGAGGCAATTTGTCATGAGGCTCATCTACGA 510
Db 441 AACTTGGTATTAATGAGACCCGAGCGAGAGGCTTTGTCATGAGGCGCCATCTCCG 500
QY 511 TGGGAGATTTATGACGATCAATTAATGATGAGAAATTTCTATTATCA---ATGGAAGA 567
Db 501 TGGGAGATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 560

QY	1639	CA-----AGTGGCTTTGTAGAGGCAAAACACAAAATGGCTACTCTCCAAATC	1689
Db	1635	TATCAACCTCAGATTTCCTCAAGATGATTAACCTAACATCCGCTCTGCTAGACTTCAANA	1684
QY	1690	CCAGGCAATGCTTAAGGTTGGCACTTGGAAATACAG--TCTGCAAGCAAGCTCACAAAAC	1746
Db	1695	CCGGGCACTGCAAGACAGAGTACTTGGACTTACAGTACAGGGATACCAAGCTCAGATG	1754
QY	1747	TTGACCTTCACTGTCACTGCCGTGGCTCAATGCTACCTGCTTCCATTTACAGTACT	1806
Db	1755	ATTCAATATGACAGTACCACTCGACAGAAAGTCCACCATTGAAACCACTCTGGGCTAC	1814
QY	1807	TCCAAAACGAACAGACACACACAAATTTCCAGCCCTCTGTGTTATGCAAAATTT	1866
Db	1815	TGCTACATGAGTACAGACACAGCCAGTACCTTACGCCGATGATTGTGTACGACGGGTC	1874
QY	1867	CGCCACAGACACTCCCAATTTCTCAGGCGCAGTGCACAGCCCTGATTGAATCAGTAT	1926
Db	1875	AGCCAAAGATTTTGGCTGTGTTGGGAAGCCAAATGTACAGCCCTCATAGAACTGAACAT	1934
QY	1927	GGAAAAAGATTACCTTGGAACTAGTGAATTTGAGACAGAGTGTGATGTACTAAGGAT	1986
Db	1935	GGACATCAAGTCAACCTTGGAGCTGTGGACAAATGGGGCAGGTGTGATGTATTAATAAT	1994
QY	1987	GACGGTGTACTTCAAGATTTTCCACAACCTTATGACAGCAATGATAGATACAGTGTAAA	2046
Db	1995	GATGGCACTTACACCAAGATCTTTACAGATTATCATGTGAAGATGATATACAGCTTAAA	2054
QY	2047	GTTGGGGCTCTGGGAAGAGTTAACGACGACGACGAGAGTATGCCACAGAGAGTGA	2106
Db	2055	GTTGGGTTCAGGACACAAAGAAACAAACAGCTGAGCTTAGA--CAGAAGACAG	2111
QY	2107	GCACTGTACATTAACCTGGCTGGATTGGAAATGATGAATCAATGGAATCCACCAAGACT	2166
Db	2112	TCTTATATATTAACCTGGCTGTGTGGAAAAATGGTAAAAATGTACTGAATCCACCAAGACA	2171
QY	2167	GAAATTATATAGATGATGTTCAACACCAAGCAAGTGTGTTTACGACAGAACTCTCGGGA	2226
Db	2172	GATGTCCAAAGAAAGCAATAGAAAGCTACAGTGAAGAACTTACAGAGTAACTCTGGA	2231
QY	2227	GGGCTATT--TGGGGCTTGTGATGTGCCAAATGGTCCCATTAACCTGTCTCCACACT	2283
Db	2232	GGGTGTTTACTGTGTCTGAGGCGCCCTGATGGCGACACAGCTGTGTGTTCCACACA	2291
QY	2284	GGCCAAATACACGCACTGGAAGGGGAAATTCACGGGGCAGCTCATTAATCTGACTGG	2343
Db	2292	AGTAAATCAACAGACGCTGGAGGCTGATTTAATAGTG--ATTATATTCACCTTACATGG	2348
QY	2344	ACAGCTCCTGGGATGATTATGACCATGGAACAGCTCACAGATATATCTGAAATAGT	2403
Db	2349	ACGGCCCTCGCAAGGTTCTCGCAATGGAAGGCAACATAGTATCATATCAGATGAGC	2408
QY	2404	ACAAGTATTTGTCACAGACAGATTCATTAATGATATCTCAAGTGAATTAAGTACT	2463
Db	2409	CAGCATCTCTGATCTCCAGAAAGATTTTAAACATGCTACTTTAGTAAATGCTTCCAGT	2468
QY	2464	CTCATCCCAAGAGCAACTCTGGAAGTCTTTTGGTTTAAACGAAAAACATTACT	2523
Db	2469	CTGATTAACCTAAAGAGTGTGCTCAAAAAGAACATTTAATTCAAACGAAACTTTTAAA	2528
QY	2524	TTTGAAGATGGCAGACATCTTTTCATTTGCTATTTCAAGCTGTGTGATTAAGGTGATCTGAA	2583
Db	2529	ATTACCAATGGCATCCAGCTCTTCAATTTGCAATTCAGGCGAGAAAGAACAGCTCTCAC	2588
QY	2584	TCAAAATATTCAAACATGACAGAGATATCTTTGTTATATCCCTCCACA	2630
Db	2589	TCTAGGCTCTCAACATCGCACAGGCTGTCAACAGCTTACTTCTTAGA	2635


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Db 1897 ACAGCTATTACCTAGCCCAAGTGTATTGATGATGTCAGTCAAGGTTTCTCT 1956
Oy 1885 ATTCTCAGGCGCCAGTGCACAGCCCTGATGTGAATGGAATGAAAAAGTTTCTTG 1944
Db 1957 GTTCTGGGAAATCAATTAACAGCCATTATAGAAAATGAAGAGGACATCAACTAATG 2016
Oy 1945 GAACTACTGATATATGAGAGGAGTCTGATGCTACTACTAGATGAGGTGTCTACTCAAG 2004
Db 2017 GAGCTCTGCGAATGAGGCGAGGCTGATCTGTCTGCAAGATGATGATCTACTCAAG 2076
Oy 2005 TATTTACAACTTATGACACGAATGTAGATACAGTGTAAAAGTGGGCTCTGGAGAGA 2064
Db 2077 TATTTACAGATTACATGGAATGTAGATGATGATTTAAAGTCTTACCAGCAGAGA 2136
Oy 2065 GTTACGAGCGACGAGGAGATGATACCCAGAGAGTGGAGCCTGTACTACTGCTGGC 2124
Db 2137 AAAAAACAGCTAGGC-----TAACTCAACACAGAAATAAAGCTGTGATGTACCGGCG 2190
Oy 2125 TGGATTGAGAAATGATGAATACAAATGAAATCCACAGACCTGAATTAATTAAGATGAT 2184
Db 2191 TATGCTGAAAATGAAAATATATATGAAATCCATCCAAACCTGAAGTCAAGATGATG 2250
Oy 2185 GTTCAACACAGCAAGTGTGTTTACGACAGAACATCTCGGAGGCTCATTTGTGCTCT 2244
Db 2251 GAAGGAGCTCAACACAGAGACTTACAGACACTCACCCTGGAGGCTCTTACTATCA 2310
Oy 2245 GATGT---CCCAATGCTCCCATACCTGATCTCTTCCACCTGGGCAATCAACCACTG 2301
Db 2311 GGAGTGCTCTTAAATGTAATCATTCATGCTCAGGTTCTCACCCTGTAATAATGTAGACCTG 2370
Oy 2302 AAGCGGAAATTTACAGGGGCGAGTCTCATTTATCTGACTTGGACGCTCTGGGGATGAT 2361
Db 2371 GAGCTAGTATTCAAGAG---ATCATATTCACTTTATGATGACGCTCTGCGCAAGTGC 2427
Oy 2362 TATGACATGGAACAGCTCACAGATATATCATTTGGAATGATACAGATTTCTTGATCTC 2421
Db 2428 CTCGATTAAGAGAGAGCTGAGAGCTACATTTAAGATTAAGTAACTTCTGAGACCTG 2487
Oy 2422 AGAGCAAGTTCATGATGATCTTCAAGTGAATGATGATGATGATGATGATGATGATGAT 2481
Db 2488 CAAAGAGATTTGATTAAGGCTGCTTAATTAATGATGATGATGATGATGATGATGATGAT 2547
Oy 2482 AACTCTGAGAGAGTCTTTTGTGTTAAACAGAAAACATTTACTTTTGAATAATGGCAGAT 2541
Db 2548 GGTTCAGTAGAAAGTTTGAATTTAAACAGAACTTCTTAATAATGAGAAATGATGACAGA 2607
Oy 2542 CTTTTCATGCTGATCAGGCTGTGTGATAGTGTGATGATGATGATGATGATGATGATGAT 2601
Db 2608 TCTTATATGCAATCAAGCCATCCATGAGCCATGTCACCTCAGAGGTTTCAAACTT 2667
Oy 2602 GCAGAGTATCTTGTGTTATTCCTCCACAGACTCC 2636
Db 2668 GCACAGCACTAACTTATTTCTCCACAGAAC 2702
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RESULT 5
US-08-469-667-8
Sequence 8, Application US/08469667

GENERAL INFORMATION:
PATENT No. 5733748
APPLICANT: Yu, Guo-Liang
APPLICANT: Rosen, Craig
TITLE OF INVENTION: Colon Specific Genes and Proteins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/469,667
  FILING DATE: 06-JUN-1995
  CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
  NAME: Ferraro, Gregory D.
  REGISTRATION NUMBER: 36,134
  REFERENCE/DOCKET NUMBER: 325800-435
  TELECOMMUNICATION INFORMATION:
  TELEPHONE: 201-994-1700
  TELEFAX: 201-994-1744
  INFORMATION FOR SEQ ID NO: 8:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 878 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: cDNA
    FEATURE:
      NAME/KEY: CDS
      LOCATION: 2..685
US-08-469-667-8
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Query Match 26.5%; Score 790.8; DB 1; Length 878;
Best Local Similarity 97.9%; Pred. No. 3.9e-225;
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

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Oy 1992 TGTCTACTCAAGTATTTCACACTATGACACGAATGTTGATGATGATGATGATGATGATGATGAT 2051
Db 1 TGTCTACTCAAGTATTTCACACTATGACACGAATGTTGATGATGATGATGATGATGATGATGAT 60
Oy 2052 GGCCTCTGGGAGAGTTTAAACGACGACGAGAGTGTATACCCAGCAGATGAGCACT 2111
Db 61 GGCCTCTGGGAGAGTTTAAACGACGACGAGAGTGTATACCCAGCAGATGAGCACT 120
Oy 2112 GTACATACCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2171
Db 121 GTACATACCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
Oy 2172 TAAATAGGATGATGTTCAACCAAGCAAGTGTGTTTACGAGAACATCTCGGGAGGCTC 2231
Db 181 TAAATAGGATGATGTTCAACCAAGCAAGTGTGTTTACGAGAACATCTCGGGAGGCTC 240
Oy 2232 ATTTGTGCTTCTGATGTCGCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 2291
Db 241 ATTTGTGCTTCTGATGTCGCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAAT 300
Oy 2292 CACGACCTGAAGGCGGAAATTCACGGGGGAGTCTCATTAATGATGATGATGATGATGATGATGAT 2351
Db 301 CACGACCTGAAGGCGGAAATTCACGGGGGAGTCTCATTAATGATGATGATGATGATGATGATGAT 360
Oy 2352 TGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2411
Db 361 TGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Oy 2412 TCTTGATCTCAGAGCAAGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2471
Db 421 TCTTGATCTCAGAGCAAGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
Oy 2472 AAAGGAGCCAACTCTGAGAAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAA 2531
Db 481 AAAGGAGCCAACTCTGAGAAAGTCTTTTGTAAACAGAAAACATTTACTTTGAAA 540
Oy 2532 TGGCAGACATCTTTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2591
Db 541 TGGCAGACATCTTTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
Oy 2592 ATCCAAATTCACAGAGTATCTTTGTTATTCCTCCACAGACTCCGCGAGAGACACTAG 2651
Db 600 ATCCAAATTCACAGAGTATCTTTGTTATTCCTCCACAGACTCCGCGAGAGACACTAG 2651
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Db 601 ATCCAAATTGACAGAGTATCTTTGTTATTCCTCAGAGACTCCGCCAGAGACACTAG 660
Qy 2652 TCCGTGATGAACGTCGTCTCTTGT-CTTAATATTCATATCAACAGCACCATTCTGGCA 2710
Db 661 TCCGTGATGAACGTCGTCTCTTGTGCTTAATATTCATATCAACAGCACCATTCTGGCA 720
Qy 2711 TTCACATTTTAAATAATATGATGGAAGTGAAGAGACTGAGAGAGTGTGTAATAGCTAG 2770
Db 721 TTCACATTTTAAATAATATGATGGAAGTGAAGAGACTGAGAGAGTGTGTAATAGCTAG 780
Qy 2771 GCTGAATTTTGTGACATTAATTAATCAATTCATCTTTTGTGATATATAAA 2828
Db 781 GGTGAATTTTGTGCGGTGAAT-AAATATATTAATTCANCTTTTGTGTTATATAAA 837

RESULT 6
US-09-224-110-8
Sequence 8, Application US/09224110
Patent No. 6337195

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang

APPLICANT: Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/224,110

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/469,667

FILING DATE: 06-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Ferraro, Gregory D.

REGISTRATION NUMBER: 36,134

REFERENCE/DOCKET NUMBER: 325800-435

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ. ID NO.: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 878 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 2..685

US-09-224-110-8

Query Match 26.5%; Score 790.8; DB 4; Length 878;

Best Local Similarity 97.9%; Pred. No. 3.9e-225;

Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

Qy 1992 TGTCTACTCAAGTATTTCAACTATGACACGATGTAGATACAGTGTAAAGTGGC 2051

Db 1 TGTCTACTCAAGTATTTCAACTATGACACGATGTAGATACAGTGTAAAGTGGC 60

Qy 2052 GGCTCTGGAGAGATTAAAGCAGCAGAGAGTATATCCCGACAGAGATGGAGACT 2111

Db 2111 GGCTCTGGAGAGATTAAAGCAGCAGAGAGTATATCCCGACAGAGATGGAGACT 2111

Db 61 GGCTCTGGAGAGATTAAAGCAGCAGAGAGTATATCCCGACAGAGATGGAGACT 120
Qy 2112 GTACATACCTGGCTGGATGGAATGATGAATACAAATGAAATCCACCAAGACCTGAAT 2171
Db 121 GTACATACCTGGCTGGATGGAATGATGAATACAAATGAAATCCACCAAGACCTGAAT 180
Qy 2172 TAATAGATGATGTTTCAACACAGCAAGATGTTTTCAGCAGAACATCTCGGAGGCTC 2231
Db 181 TAATAGATGATGTTTCAACACAGCAAGATGTTTTCAGCAGAACATCTCGGAGGCTC 240
Qy 2232 ATTTGGCTCTGTATGTCGCCAAATGCTCCATACCTATCTCTCCACCTGGCCAAAT 2291
Db 241 ATTTGGCTCTGTATGTCGCCAAATGCTCCATACCTATCTCTCCACCTGGCCAAAT 300
Qy 2292 CACCGACCTGAAGGGGGAATTCACGGGGGAGCTCATTAATCTGACTTGGACAGCTCC 2351
Db 301 CACCGACCTGAAGGGGGAATTCACGGGGGAGCTCATTAATCTGACTTGGACAGCTCC 360
Qy 2352 TGGGGATGATTTGACATGAAAGAGCTCACAAGTATATCATTCGAAATGATACAGTAT 2411
Db 361 TGGGGATGATTTGACATGAAAGAGCTCACAAGTATATCATTCGAAATGATACAGTAT 420
Qy 2412 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTGAAGATGATGATGATGATGATGAT 2471
Db 421 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTGAAGATGATGATGATGATGATGAT 480
Qy 2472 AAAGGAAGCCAACTGAGAGAGTCTTTTGTAAACAGCAAAACATTTCTTTGAAA 2531
Db 481 AAAGGAAGCCAACTGAGAGAGTCTTTTGTAAACAGCAAAACATTTCTTTGAAA 540
Qy 2532 TGGACAGATCTTTTCATTTGATTCAGGCTGTTGATTAAGTTCGATTCGAAATGAAAT 2591
Db 541 TGGACAGATCTTTTCATTTGATTCAGGCTGTTGATTAAGTTCGATTCGAAATGAAAT 600
Qy 2592 ATCCAAATTGACAGAGATATCTTTGTTATTCCTCAGAGACTCCGCCAGAGACACTAG 2651
Db 601 ATCCAAATTGACAGAGATATCTTTGTTATTCCTCAGAGACTCCGCCAGAGACACTAG 660
Qy 2652 TCCGTGATGAACGTCGTCTCTTGT-CTTAATATTCATATCAACAGCACCATTCTGGCA 2710
Db 661 TCCGTGATGAACGTCGTCTCTTGTGCTTAATATTCATATCAACAGCACCATTCTGGCA 720
Qy 2711 TTCACATTTTAAATAATATGATGGAAGTGAAGAGACTGAGAGAGTGTGTAATAGCTAG 2770
Db 721 TTCACATTTTAAATAATATGATGGAAGTGAAGAGACTGAGAGAGTGTGTAATAGCTAG 780
Qy 2771 GCTGAATTTTGTGACATTAATTAATCAATTCATCTTTTGTGATATATAAA 2828
Db 781 GGTGAATTTTGTGCGGTGAAT-AAATATATTAATTCANCTTTTGTGTTATATAAA 837

RESULT 7

PCT-US95-07289-8

Sequence 8, Application PC/TUS9507289

GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang

APPLICANT: Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gillfillan, Cecchi,

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: NJ

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

Qy	1992	TGTTACTACAGAGTATTTTACAACTTATGACACGAATGGTAACTACAGTAAAGTGG	2051
Db	1	TGTTACTACAGAGTATTTACAACTTATGACACGAATGGTAAAGTGG	60
Qy	2052	GGCTCTGGGAGGAGTTAAACGACGACGAGAGTATCCCGACAGAGTGGAGACT	2111
Db	61	GGCTCTGGGAGGAGTTAAACGACGACGAGAGTATCCCGACAGAGTGGAGACT	120
Qy	2112	GTACATACCTGGCTGGATTGAGAAATGAGAAATACAAAGAAATCCACCAAGCTGAAAT	2171
Db	121	GTACATACCTGGCTGGATTGAGAAATGAGAAATACAAAGAAATCCACCAAGCTGAAAT	180
Qy	2172	TAAATAAGATGATGTTCAACAACAAGCAAGTGTGTTACAGACAGAACATCTCGGGAGCTC	2231
Db	181	TAAATAAGATGATGTTCAACAACAAGCAAGTGTGTTACAGACAGAACATCTCGGGAGCTC	240
Qy	2232	ATTGTGGCTCTGTGTGTCGCCAAATGCAACCACTGATCTGTCCTTCCGACCGGGCCAAAT	2291
Db	241	ATTGTGGCTCTGTGTGTCGCCAAATGCAACCACTGATCTGTCCTTCCGACCGGGCCAAAT	300
Qy	2292	CACGACCTGGAAGCGGAAATTCACGGGGGCGAGTCTTAATCTGACTTTGGACAGCTCC	2351
Db	301	CACGACCTGGAAGCGGAAATTCACGGGGGCGAGTCTTAATCTGACTTTGGACAGCTCC	360
Qy	2352	TGGGAGTATTAATGACCATGGAACAGCTCACAGTATATCATTGCAATTAAGTACAATAT	2411
Db	361	TGGGAGTATTAATGACCATGGAACAGCTCACAGTATATCATTGCAATTAAGTACAATAT	420
Qy	2412	TCTTGATCTCGAGACAAGTTCATGAATGCTTAAAGGAATPACTAGCTCTCATCC	2471
Db	421	TCTTGATCTCGAGACAAGTTCATGAATGCTTAAAGGAATPACTAGCTCTCATCC	480
Qy	2472	AAAGGAAGCCAACTGTGAGGAAGTCTTTTGTTAACCCAGAAAACATTACTTTGAAAA	2531
Db	481	AAAGGAAGCCAACTGTGAGGAAGTCTTTTGTTAACCCAGAAAACATTACTTTGAAAA	540
Qy	2532	TGGACAGATCTTTTCATTGCTATTCAGGCGTGTATTAAGTCGATCGTAATTCGAATAT	2591
Db	541	TGGACAGATCTTTTCATTGCTATTCAGGCGTGTATTAAGTCGATCGTAATTCGAATAT	600
Qy	2592	ATCCAACTTCGACAGAGTATCTTGTGTTATTCCTCCACAGACTCCGCCAGACAACTAG	2651
Db	601	ATCCAACTTCGACAGAGTATCTTGTGTTATTCCTCCACAGACTCCGCCAGACAACTAG	660
Qy	2652	TTCCTGATGAACGTCCTGCTCTGTG-CCTAATATTCATATGAACAGACACTTCTCGGCA	2710
Db	661	TTCCTGATGAACGTCCTGCTCTGTGCTAATATTCATATGAACAGACACTTCTCGGCA	720

Query	2711	TTCCATATTTTAAATTTATGTGGAAGTGGATGGAAGAACTGCAGCTGCATTAATGCTGAG	2770
Db	721	TTCCATATTTTAAATTTATGTGGAAGTGGATGGAAGAACTGCAGCTGCATTAATGCTGAG	780
QY	2771	GCTGAATTTTGTCTCGATTAATAATAATCAATCATCTTTTGTGATTTATATAA	2828
Db	781	GGTGAATTTTGTGCGGGAAT-AAATATATATTTCCANCTTTTGTGATTTATATAA	837
RESULT 8			
US-09-193-562D-31			
Sequence 31, Application US/09193562D			
Patent No. 6309857			
GENERAL INFORMATION:			
APPLICANT: Pauli, Benedicht U.			
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
FILE REFERENCE: 18617.0052			
CURRENT APPLICATION NUMBER: US/09/193.562D			
PRIOR FILING DATE: 1998-11-17			
PRIOR APPLICATION NUMBER: US/60/065.922			
NUMBER OF SEQ ID NOS: 47			
LENGTH: 2970			
TYPE: DNA			
ORGANISM: Homo sapiens			
US-09-193-562D-31			
Query Match	18.5%;	Score 552.2;	DB 4; Length 2970;
Best Local Similarity	55.4%;	Pred. No. 6.9e-154;	
Matches 1371;	Conservative	0; Mismatches 1038;	Indels 66; Gaps 13;
QY	98	TTCCAGCTACACACATGGCTATGAGAGCATTTGCTGTGCAATGCACCCCAATGTCGAG	157
Db	206	TACACCTTCAGACACATGGGTATATGATGCTCATTTGCAATTAATCCTCAGTACCTG	265
QY	158	AAGATGAACACCTCATTTCAACAAATPAAAGAGCATGGTGACCCAGCATCTCTGATCTGT	217
Db	266	AGATTCAGACCTCATCTTCACAACTTAAGAAATATATACTAAGCTTCATTTTACCTAT	325
QY	218	TTGAAGCTACAGAAAGCGATTTTATTCACAAATGTTGCCATTTTGAATTCCTGAAACAT	277
Db	326	TTAATGCTACCAAGAGAGATATTTTTCAGAAATATPAAAGTTTAAATACCTGCCACAT	385
QY	278	GGAACACAAAGGCTACATATGTGAACACAAACTTGAGACCTACCAAAAATGCTGATGTTG	337
Db	386	GGAAAGCTPAA--TATATAACACCAAAATPAAAGAAATCATATGATAAAGGCMAATGTCA	442
QY	338	TGGTGTGAGCTCTACTCTCTCCAGGTAAATGATGAACCTACGCTGAGCATGAGGAGCACT	397
Db	443	TAGTACTGACTGGTATGGGCGACATGAGATGATCCATACCCCTACATACAGAGGT	502
QY	398	GTGAGAGAGGGGTGAAGATCCACCTCATCTCTGATTTCAATTCAGAGAAAAAGTT--	455
Db	503	GTGGAAGAGAGGAAATATACATTCATTTACACACTAATTTCTACTGATGATTACTPAA	562
QY	456	AGCTGATATATGACACCAAGGTAGGCACTTTGTCCATGATGAGGGGCTCATCTACATGGG	514
Db	563	CAGCTGGCTACGACATCAGAGGCCAAGTGTGTTCATGAAGAGGGGCCACCTCCCTTGGG	622
QY	515	GAGTATTGAGAGATACATATGATGAGAAATTTCTACTTATCCAAATGAA--GATATC	571
Db	623	GTGTATTGATGATGATATATACATTAATGCAAACTTTTCTACATTAATGGCCAAATTA	682
QY	572	AAGCAGTAAAGATTTTACAGAGGTATTTACTGTATCAAAATGTACTATAAAGAGTCTCAGGAG	631
Db	683	AAGTACAAAGGTTCATCTGACATCACAAGGCACTTTTGT-----GTGTGAAAAG	733
QY	632	GCAGCTGTATACCAAAAGATGCACATTCATTAAGTATACAGAGACTCTATGAAAAAGAT	691
Db	734	GTCTTTGGCCCCAGAAACCTGTATTTATTTAGTAA-----CTTTTAAAGAGAT	784

QY	692	GTGAGTTGTTCTTCCAAATCCCGCAGACGGAGAAAGGCTCTATATATGTTGGCAACATG	751
Db	785	GCACCTTTATCTCAATATAGCACCCAAAATGCAACTGCATCAATATATGTTCAATGAAAGTT	844
QY	752	TTGATTTCTATAGTTGAATTTCTGTACAGAAACAACACACAAAGAAAGCTCCAAACAAGC	811
Db	845	TATCTTCTGTGGTTGAATTTTGTATATGCAATGCCACACACAAAGAACCAAACTTAC	904
QY	812	AAAAATCAAAATGCATCTTCCGAGCACATGGGAAGTATCCGTGATTTCTGAGACCTTTA	871
Db	905	AGAACCCGATGTGCACCTCAGAAAGTCATGGGAATGTAATACAGAGCTCTGTCACTTTC	964
QY	872	AGAAAACCATCTCTAT-----GACAAACACACACACAAATCCCACTTCTCATTTGCTGC	925
Db	965	ACCACAGCTTTCCATGATGATGGAGACCTGACACTTCCACCTCTCTCCACATTTCTGGTTGAC	1024
QY	926	AGATTGGACAAGAATTTGTGTTTATGTCCTTGACAAATCTGGAAGCATGGCCACTGTA	985
Db	1025	AGGCTGTGTCAAAAGTGGTCTGTTTGTGTCGTGATGTGTCCAGCAAGTGGCAGAGCTG	1084
QY	986	ACGCCCTCAATGCACATGGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACGTGAGCTGG	1045
Db	1085	ACAGACTCTTCACTATCAACAACCGCCAGAAATTTTATTGATGACAGTTGTTGAATTC	1144
QY	1046	GGTCCGTGGTGGATGTGTACATTTTGACAATGCTGTGCCATGTACAAAGTAACATATAC	1105
Db	1145	ATATCTTCTGTGGGATTCGCCATTTTGACAGCAAAAGAGATGATCAGACCCACAGCTACACC	1204
QY	1106	AGATTAACATGTGGCAGTACAGGACACACACTGCGCCAAAAGATTAC-----CTGACGAG	1159
Db	1205	AAATTAACAGATGATGATGATGCAAGTGTGTGTTTCAATATCTGCCACACACTGTATCAG	1264
QY	1160	CTTACAGAGGAGCGCTCCATCTTGCACGGCGCTTGATCGGATTTTACTGTGATTAGAA--	1217
Db	1265	CTAAACAGACATCAGCATTTGTTTCAAGGCTTAAAGAAAGATTTGAGGGTGTGAAGAAC	1324
QY	1218	-GAATATCCACATGATGATCTGAAATTTGTCTGTACAGGATGGGAAGCAACACTA	1276
Db	1325	TGAATGGAAAAGCTTATGGCTCTGTGATGATTTAGTGTACACGCCGAGATGATTAAGCTTC	1384
QY	1277	TAAAGGGGTGCTTTAAGGAGGTCAAAACAAGTGTGCCATCTATCCACACAGTCCGTTTGG	1336
Db	1385	TTTGGCATTTGCTTACCCATGCTGTGTACAGAGTGGTTCAACAAATCACCATCTTGGCCCTGG	1444
QY	1337	GGCCCTGTGCAGCTCAAGAACTAGAGAGCTGTCTCAAAATGACAGSAGTTTACAGACAT	1396
Db	1445	GTTCTATCTGCAGCCCAAATCTGGAGAAATTAACAGCTTACAGAGAGGTTTAAAGTCT	1504
QY	1397	ATGCTTTCAGATCAGTTCAAGAACATGGCTCATATGATCTTTTGGGCGCTTTCATAG	1456
Db	1505	TTTGTCCAGATATATCAAACTCCAACTGCATGATGATGATGTTTCASTAAATTTCTCTGG	1564
QY	1457	GAAATGAGCTGTCTCTCAGCGCTCATTCACGTTGAGATGAGGATTTAACCTTCCAGA	1516
Db	1565	GAACTGAGAGATTTTCCAGCAACATTTACGCTTGAAGTACAGGTGAAAATGTCAAAC	1624
QY	1517	ACAGCAGTGCATGAATGAGCACTGATGCTGGACAGACCCGCGGAAAAGCAGACTTTGT	1576
Db	1625	CTCACCATCAATTGAAAACAACATGACTGTGTGGATATATATGTGGCAACGACACTATGT	1688
QY	1577	TTCTTATACCTG--GACAAACGACGCTCCCAAATCCTTCTCTGGATCCAGTGCAC	1633
Db	1685	TTCTAGTTACGTGGGAGGCCAGTGTCTCTGTGATTAATATTTGATCTTGATGAGC	1744
QY	1634	AGAGACA-----AGTGGCTTTGTATGGAACAAAACACAAAATGGGCTACCTACCTCAA	1687
Db	1745	GAAATTACTACAAATATATTTTATACCAATCTAATTTTGGACAGCTAGCTTTGGA	1804
QY	1688	TCCCAAGCATTTGCTATGTTGGCACTTGGAAATACAGTCTGCACAGCAAGCT-----	1738
Db	1805	TTTCAGGAAGACTTAAGCTTGGGACCTGGACTTACACCTCGAACAATTAACCATATCTTC	1866

QY	1739	CACAACCTTGACCCTGACCTGCTACGTCCTCCCGGCGGCCCAATGCTACCCGCTCCAAATTA	1798
Db	1865	TGCAAGGCCCTGAAAGTGAACGTACAGTACCTCTCGCGCCCTCCAACTACGCTGTGCCCGCAGCA	1924
QY	1799	CAGAGACTCTCCAAACACGAACACAGACACACAGCAAAATTTCCCGACGCCCTCTGGTAGTTATG	1858
Db	1925	CTGTGGAAAGCCTTTGTGGAAAGAGACAGCGCTCATTTTCTCATCTCTGAGTAGATTTATG	1984
QY	1859	CAAAATTTCCGCAAGAGAGCCTCCCGCAATTTCTCAGGGCCAGTGTACACAGCCCTGATGAT	1918
Db	1985	CCAAATGTGAAACACAGGGATTTTATTCGCCATTTCTTAATGCCACTGTCACTGTCCACAGTTGAGC	2044
QY	1919	CAGAGATGGAAAAACAGTATACCTTGGAACTGACTGTGATATGAGCAGAGTGTGTATGCTA	1978
Db	2045	CAGAGACTGAGAGATCCGTGTTACCGCTGAGAGCTCTTGATGATGAGCAGAGTGTGTATGTTA	2104
QY	1979	CTAAGATGACGCGTGTCTACTCAGAGTATTTTCAACAATTATGACACAGATGGTAGATACA	2038
Db	2105	TAAAAATGATGGAATTTACTTCCAGAGTATTTTTCCTCTTCTCCAAATGGTAGATATTA	2164
QY	2039	GTTGAAAGTGGCGGGCTCTGGAGAGATTATACGACAGCCAGACGAGAGATGATACCCAGC	2098
Db	2165	GCTTGAAGTGCATGTCAATCAATCACTCTCCAGCATTAAGCACCCAGCCGCACTGTATTCCAG	2224
QY	2099	AGAGTGGAGCACTCTACATCACTCTGGCTGATGATGAGATGATGAATACATGGAATCCAC	2158
Db	2225	GGAGTCATGTATGTATGTATGTACAGAGTTACACACAAACGGTAAATATTCAGATGAATGCTC	2284
QY	2159	CAGACCTGAAATTAATATAGATGATGTTCAACACAGCAAGATGTTTCAGCAGCAATAT	2218
Db	2285	CAAGGAATTCAGTAGGCAAGAAATGAGAGAGCGGAAG--TGGGCTTTTACCCAGATCA	2344
QY	2219	CCTCGGAGGCGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCACATCTGATCTCTCC	2278
Db	2342	GCTCAGAGGCGTCCCTTTTCACTGCTGGAGATTTCTACACTGGCCCCCCTCGATGTGTTTC	2401
QY	2279	CACCTGGCCAAATACCGACCTGGAAGCGGAATTCACGGGGGCACTCTCATTAATTCGA	2338
Db	2402	CACCATGTGAAATTAATTCACCTGGAACTGTAA--AAGTAGAAGAGGAATTGACCCCTAT	2455
QY	2339	CTTGGACAGCTCTCGGGGATGATTAATACCATGGAACAGCTCAACAGTATATTCGA	2398
Db	2459	CTTGGACAGCACTGTGGAGAAACCTTTGATCAGGGCCAGGCTACAACTATGAATTAAGA	2518
QY	2399	TAAGTACAAATTTCTTGATCTCAGAGACAAAGTTCAAATGAATCTTCAAGTAATACTA	2458
Db	2519	TGAGTAAAGCTCTACAGAAATTCACAAATGACTTTAACTATTTAGTAAATACAT	2578
QY	2459	CTGTCTCATCTCCAAAGAGACCAACTCTGTGAGAAAGCTTTTGTGTTAAACGAGAAACA	2518
Db	2579	CAAAGCGAAATCTCAGCAACCTGGCATCAGGAGATATTTACGTTCTACCCAGATTT	2638
QY	2519	TTACTTTTGAATG 2533	
Db	2639	CCACGAATGAGACCTG 2653	
RESULT 9			
US-09-221-298-34			
; Sequence 34, Application US/09221298			
; Patent No. 6284241			
; GENERAL INFORMATION:			
; APPLICANT: Xu, Jiangchun			
; TITLE OF INVENTION: OF COLON CANCER			
; FILE REFERENCE: 210121.471			
; CURRENT APPLICATION NUMBER: US/09/221.298			
; CURRENT FILING DATE: 1998-12-23			
; NUMBER OF SEQ ID NOS: 112			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 34			
; LENGTH: 401			
; TYPE: DNA			

```

RESULT 9
US-09-221-298-34
; Sequence 34, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER
; FILE REFERENCE: 210121.471
; CURRENT APPLICATION NUMBER: US/09/221,298
; CURRENT FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 401
; TYPE: DNA
;

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ORGANISM: Human
US-09-221-298-34

Query Match 10.9%; Score 323.8; DB 4; Length 401;
Best Local Similarity 96.7%; Pred. No. 1.7e-86;
Matches 384; Conservative 0; Mismatches 7; Indels 6; Gaps 5;

QY 109 AACATGCGTATGAAGCAATTTGCTGTCATCGACCCCAATGTCACAGATGAAACA 168
DB 1 AACATGCGTATGAAGCAATTTGCTGTCATCGACCCCAATGTCACAGATGAAACA 60
QY 169 CTCATTCACAAATAAAGACATGTCAGCCAGGACATCTGTATCTGTTGAAGTACA 228
DB 61 CTCATTCACAAATAAAGACATGTCAGCCAGGACATCTGTATCTGTTGAAGTACA 120
QY 229 GGAAGCCGATTTATTTTCAAAAATGTCGATTTGATTCCTGGAACATGAAACAAG 288
DB 121 GGAAGCCGATTTATTTTCAAAAATGTCGATTTGATTCCTGGAACATGAAACAAG 180
DB 289 GGTGACTATGTAGACCAAAACTGTGACCTACAAAATGCTGATGTTCTGGTTGC -TGA 347
DB 181 GGTGACTATGTAGACCAAAACTGTGACCTACAAAATGCTGATGTTCTGGTTGCTGA 240
QY 348 GTCTACTCTCCAGGTATGATGAACCCCTACACTGACAGAT -GGGCAACTGTGAGAGA 406
DB 241 GTCTACTCTCCAGGTATGATGAACCCCTACACTGACAGATGGGCAACTGTGAGAGA 300
QY 407 AGGG--TGAAAGATCCACTCTCTGATTTTCATTCGAGAAAAAAGTTAGC -TGAAT 463
DB 301 AGGGGTAAGAGATCCACTCTCTGATTTTCATTCGAGAAAAAAGTTAGCTGAAT 360
QY 464 ATGACACACAGGT -AGGGCATTTGTGCATGAGTGGG 499
DB 361 ATGACACACAGGTAAAGGCATTTGTCCATGATGGG 397

RESULT 10
US-09-385-982-23

; Sequence 23, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 576
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(576)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-23

Query Match 7.7%; Score 228.2; DB 4; Length 576;
Best Local Similarity 69.1%; Pred. No. 5.4e-58;
Matches 385; Conservative 0; Mismatches 163; Indels 9; Gaps 5;

QY 1882 CCAATTCAGGCGCAAGTTCACAGCCCTGATTAATCATGTAATGAAAAACAGTTACC 1941
DB 2 CCTGTTCTTGAGCAATGTGACTGCTTCATTTGATGATACAGAAATGACATACAGAAATT 61

QY 1942 TTGAACCTACTGGAATATGAGCAGGTGCTGATGCTACTAAGATAGCGTGTACTCA 2001
DB 62 TTGAACCTTTTGATTAATGCTGAGCGCTGATTTCTTCACAAATGATGAGATCTACCC 121
QY 2002 AGGTATTTTCAACCTTATGACAGCAAGTGTAGATACGTGTAAGAGGGCTGTGGGA 2061
DB 122 AGGTATTTTCAACCTTATGACAGCAAGTGTAGATACGTGTAAGAGGGCTGTGGGA 181
QY 2062 GGAGTTAAGCGACGACAGCGAGATGATACCCAGAGAGTGAGGACACTGTACTACT 2121
DB 182 GGAGCAAAACCTGCGAGGTAAATTTAGCGCTCCACGTGAATGAGCGCGTACATFACA 241
QY 2122 GCGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2181
DB 242 GCGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 298
QY 2182 GATGTTCAACACAGCAAGCTGTGTTTCAAGACAGATCTCGGAGGCTCATTTGGCT 2241
DB 299 GATGTTCAACACAGCAAGCTGTGTTTCAAGACAGATCTCGGAGGCTCATTTGGCT 358
QY 2242 TCTGATGTCCTCAAAATGCTCCCTACTGATCTCTTCCACCTGGCCAAATCACCACTG 2301
DB 359 TCTGATGTCCTCAAAATGCTCCCTACTGATCTCTTCCACCTGGCCAAATCACCACTG 417
QY 2302 AAGCGGAATTCACGCGGCGAGCTCATTAATCTGACTTGGACAGCTCTCGGAGTAT 2361
DB 418 GATGCCACAGCTTCATTAAG--ATAAGATTTATTTTACATGACACAGCAGAGATTAAT 474
QY 2362 TATGACATGAGCAAGCTCACAAATATCATTCATTCGAATTAAGTACAGTATTCCTG 2421
DB 475 TTTGATGTTGAAAGTTCAACGTTATATCATTAAGATTAAT -TGCCAGTATCTTGA -CTA 532
QY 2422 ACAGACAGTTCATGA 2438
DB 533 ACAGACAGTTCATGA 549

RESULT 11
US-09-385-982-25

; Sequence 25, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 595
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(595)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-25

Query Match 7.4%; Score 221.4; DB 4; Length 595;
Best Local Similarity 68.4%; Pred. No. 5.8e-56;
Matches 355; Conservative 0; Mismatches 155; Indels 9; Gaps 4;

QY 2114 ACATACCTGCGTGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2173
DB 1 ACATACCAACCGTGGTATGAAAGCGGGAATTAAGCAAAACCGCAAGACTGAAATTTG 60

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[illegible]

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RESULT 13
US-09-385-982-27
; Sequence 27, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: II
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 27
; LENGTH: 611
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(611)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-27

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Query Match	Similarity	6.1%	Score 183.4	DB 4	Length 611
Best Local	Similarity	68.0%	Pred. No. 1.2e-44		
Matches 300	Conservative	0	Mismatches 136	Indels 5	Gaps 3
QY 1882	CCAATTCTCAGGGCCAGTGTACAGGCCCTGATTGAATCACTGAAT	GGAAAAACAATTAC	1940		
Db 2	CCGTGTCTTGAGGCATATGTACGTCTTTCATTGAATCACAGAAATGGACATACAAAGT	61			
QY 1941	CTTGGAACACTGATGATATGGACAGGTGTGTATGCTACTAAGAGATGACGGTGTACTTC	2000			
Db 62	TTTGGAACTTTTGGATATGTCGACGGCGCTGATCTTTTAAGAAATGATGAGACTTACCTC	121			
QY 2001	AAGSTATTTCACCACTTATGACACGATGCTAGTATACAGTGTAAAGTGGCGGCTCTGGG	2060			
Db 122	CAGSTATTTTTACACACATATACAGAAATGGCAGATATAGCTTAAAGTTGGGCGCTCATGG	181			
QY 2061	AGGAGTTAAGCCACCCACAGACGGAGAGTGATATCCCCAGCAAGTGTGACCACTGTATCAATAC	2120			

[illegible]

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RESULT 14
US-09-385-982-33
: Sequence 33, Application US/09385982
: Patent No. 6262334
: GENERAL INFORMATION:
: APPLICANT: ENDEGE, WILSON O., ET AL.
: TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
: TITLE OF INVENTION: PRODUCTS: II
: FILE REFERENCE: CCDNA-260XX
: CURRENT APPLICATION NUMBER: US/09/385,982
: CURRENT FILING DATE: 1999-08-30
: EARLIER APPLICATION NUMBER: 09/328,111
: EARLIER FILING DATE: 1999-06-08
: EARLIER APPLICATION NUMBER: 60/117,393
: EARLIER FILING DATE: 1999-01-27
: EARLIER APPLICATION NUMBER: 60/098,639
: EARLIER FILING DATE: 1998-08-31
: NUMBER OF SEQ ID NOS: 344
: SOFTWARE: FASTSEQ for Windows Version 3.0
: SEQ ID NO 33
: LENGTH: 742
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc.feature
: LOCATION: (1)...(742)
: OTHER INFORMATION: n = A,T,C or G
: 09-385-982-33

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Query Match	5.7%;	Score 168.6;	DB 4;	Length 742;
Best Local Similarity	69.9%;	Pred. No. 3.3e-40;		
Matches 285; Conservative	0;	Mismatches 115;	Indels 8;	Gaps 4;

QY	2174	ATTAAGATGATGTTTCAACACACAAAGTGTGTTTCAGCAAAATCTCTGGGAGGCTCAT	2233	CT
Db	61	ATGAGGATAC --- TCAGACACACCTTGTGGAGATTTTCAGCGCAACATCTCGGAGGTGCAT	117	
QY	2234	TTTGAGCTTGTGATGATGCCAAATAGTCGCATTCACATGATCTCTCCACCTGGCCAAATCA	2293	
Db	118	TTTGATGATACAGATCCCAAGCCTTCCCTTGCTGATACCAATACCCACCAATCTCAATCA	177	
QY	2294	CCGACCTGAAGGCGGAATTCACAGGGGGCAGTCTATTATCTGACTTGGACAGCTCTCG	2353	
Db	178	CAGACCTTGATGCCAAGTTCATGAGS --- ATTAAGATTAATCTTACATAGGACAGCAGCAG	234	
QY	2354	GGGATGATTATGACATCGAAGCGCTCACAAGTATATCTTGTGATTAAGTACAGTATTC	2413	
Db	235	GAGTATATTTTGTGATTTGGGAAAAGTTCAAGTATATTAAGAAATTAAGTGCAGATATTC	294	

OY	2414	TGTGTCACAGCAAGCTTCAATGATCTCTTCAATGTAATCTACTGCTGCATCCAA	2473
Db	295	TTGATCTAAGACAAGTTTGATGATGAAGCGCTTCAATAAT-CTACTGATCT-GCACC	352
OY	2474	AGGAAGCAACTCTGAGAAGCTTTTTTTTAAAACGAAAAACATT	2521
Db	353	AGGAGGCCAACCTTCAAGGAAGCGTTTGCAATTATACCANNAATATTATTA	400

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RESULT 15
US-09-193-562D-14
: Sequence 14, Application US/09193562D
: Patient No 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedict U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193.562D
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065.922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 14
: LENGTH: 335
: TYPE: DNA
: ORGANISM: Artificial sequence
: FEATURE:
: OTHER INFORMATION: Oligonucleotide probe
: US-09-193-562D-14

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	Query Match	Score	DB 4	Length	335
	Best Local Similarity	61.4%	Pred.	No. 1.2e-18	
	Matches	153	Conservative	0	Mismatches 96
					Indels 0
					Gaps 0
QY	2381	ACAAAGTATATCAATTCGAAATTAAGTACAAAGTATTCCTGATCTCAGAGACAAAGTTCATGTAAT	2440		
Db	3	ACACCTACATTTATTAAGAAATAGTAAGAACTTCATGATCGTCAAAAGATTTTGGACAAG	62		
QY	2441	CTCTTCAGTGAATTAAGTACTACTGCTCATGCCCAAGGAGCCAACTGTGGAAGTCTTTT	2500		
Db	63	CGACTTGTAGTAATTAATCTTCTAATCTTAATACCTAAAGGAGCCGGATCAAAAGAAATTTTG	122		
QY	2501	TGTTTAAACCCAAAACCTTACTTTTGAAATGGACAGATCTTTTCATTCGTATTCAG	2560		
Db	123	AATTTAAGCCGAACATTTTAGAGTGAATAATGGACCAAAATTTCTAATTTTAGTCCAAAG	182		
QY	2561	CTGTGTGAATGAAGTGAATCGAAATCGAATAATCCAACTGACAGAGATATCTTTGTTT	2620		
Db	183	CCATCAACGAGAGCCAACTCATCTCAGAGGTTTCTCATTTGTACAGCAATCAAAATTTA	242		
QY	2621	TTTCCTCCAG	2629		
Db	243	TTTCCTCTAC	251		

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Search completed: October 17, 2002, 11:16:38
Job time : 131.486 secs
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